

Product Guide Fire Detection Systems

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Introduction

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Please always refer to the article number of the products when making an inquiry or when placing an order.

Example of an article entry

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- 1 .. Article number; please always refer to this number on inquiries or orders to avoid mistakes.
- 2 .. Product name
- 3 .. Type; the type is a string of alpha-numerical characters and symbols without blank characters and is separated from the product name by one blank character.
- 4 .. Price per unit (generally per piece)
- 5 .. Product description, details on approvals and examinations, specifications
- 6 .. Cross-references to other products of the Product Guide which are in direct connection with the chosen product. These cross-references present a list of possibilities which are of exemplary nature only; the products listed therein must not necessarily be working altogether.

Contents

1	Fire Detection Control Panels Series BC06	
	210205 Fire Detection Control Panel BC06-1/INT1	1
	210200 Fire Detection Control Panel BC06-1/D1	2
	210204 Fire Detection Control Panel BC06-1A/D1	2
	210209 Fire Detection Control Panel BC06-2/INT1	3
	210208 Fire Detection Control Panel BC06-2/D1	3
	210210 Zone Extension Board ZEB2-1	4
	210215 Serial Interface Module SIM06-1	4
	210212 Front Foil for Evacuation Circuit FFEV06-1	5
2	Fire Detection Control Panels Series BC016	
	210102 Fire Detection Control Panel BC016-1/INT1	6
	210100 Fire Detection Control Panel BC016-1/D1	7
	210122 Fire and Evacuation Panel BC016-2/INT1	7
	210120 Fire and Evacuation Panel BC016-2/D1	8
	210110 Detector Zone Extension MGE8-1	8
	210111 Fire Brigade Interface FWI016-1	9
	210112 Serial Interface Module SIM016-3	9
3	Fire Detection Control Panels Series BC216	
	2149999 Available Variants Series BC216	10
	214008 Fire Detection Control Panel BC216-1/INT1	12
	214000 Fire Detection Control Panel BC216-1/A1	14
	214610 Fire Detection Control Panel BC216-1/D1	14
	214006 Fire Detection Control Panel BC216-1/B1	14
	214015 Fire Detection Control Panel BC216-1/CZ1	14
	214007 Fire Detection Control Panel BC216-1/H1	15
	214009 Fire Detection Control Panel BC216-1/NL1	15
	214017 Fire Detection Control Panel BC216-1/SK1	15
	214049 Fire Detection Control Panel BC216-1/HR1	15
	214080 Fire Detection Control Panel BC216-1/RUS1	15
	214084 Fire Detection Control Panel BC216-1/SLO1	15
	214086 Fire Detection Control Panel BC216-1/I1	15
	214088 Fire Detection Control Panel BC216-1/PL1	15
	214308 Fire Detection Control Panel BC216-1S/INT1	16
	214300 Fire Detection Control Panel BC216-1S/A1	18
	214304 Fire Detection Control Panel BC216-1S/D1	18
	214306 Fire Detection Control Panel BC216-1S/B1	18
	214315 Fire Detection Control Panel BC216-1S/CZ1	18
	214307 Fire Detection Control Panel BC216-1S/H1	18
	214309 Fire Detection Control Panel BC216-1S/NL1	18
	214317 Fire Detection Control Panel BC216-1S/SK1	19
	214349 Fire Detection Control Panel BC216-1S/HR1	19
	214384 Fire Detection Control Panel BC216-1S/SLO1	19
	214388 Fire Detection Control Panel BC216-1S/PL1	19
	2199999 Fire Detection Control Panel BCnet216, Description	20
	214056 BCnet Sectional Control Panel/OP. BC216-2/INT1	23
	214004 BCnet Sectional Control Panel/OP. BC216-2/A1	24
	214612 BCnet Sectional Control Panel/OP. BC216-2/D1	24
	214060 BCnet Sectional Control Panel/OP. BC216-2/B1	24
	214064 BCnet Sectional Control Panel/OP. BC216-2/CZ1	24
	214062 BCnet Sectional Control Panel/OP. BC216-2/H1	24
	214058 BCnet Sectional Control Panel/OP. BC216-2/NL1	25
	214066 BCnet Sectional Control Panel/OP. BC216-2/SK1	25

214079	BCnet Sectional Control Panel/OP. BC216-2/HR1	25
214081	BCnet Sectional Control Panel/OP. BC216-2/RUS1	25
214085	BCnet Sectional Control Panel/OP. BC216-2/SLO1	25
214087	BCnet Sectional Control Panel/OP. BC216-2/II	25
214089	BCnet Sectional Control Panel/OP. BC216-2/PL1	25
214005	BCnet Sectional Control Panel/No Operation BC216-3	25
214034	BCnet Sectional Control Panel/Extension BCE216-3LG	26
214108	Fire Detection Control Panel BC216-1CE/INT1	27
214100	Fire Detection Control Panel BC216-1CE/A1	29
214611	Fire Detection Control Panel BC216-1CE/D1	29
214158	Fire Detection Control Panel BC216-1CE/NL1	29
214164	Fire Detection Control Panel BC216-1CE/CZ1	29
214109	Fire Detection Control Panel BC216-1CE/H1	29
214105	BCnet Sectional Control Panel/No Op. BC216-3CE	29
2149997	BCnet Sectional Control Panel/OP. BC216-2EPS	30
214204	Fire Detection Control Panel Module/PS BCM216-3EPS	31
214205	Fire Detection Control Panel Module BCM216-3E	32
214234	Fire Detection Control Panel Module/LG BCM216-3ELG	32
214208	Display and Operating Front Panel ABP216-1E/INT1	33
214200	Display and Operating Front Panel ABP216-1E/A1	34
214615	Display and Operating Front Panel ABP216-1E/D1	34
214209	Display and Operating Front Panel ABP216-1E/NL1	34
214020	Conventional Detector Interface GIF8-1	35
214021	Loop Interface LIF64-1	35
214022	Fire Brigade Interface FWI2-1	36
214023	Fire Brigade Interface Additional Board FWZ2-1	37
214024	LED Display Field LAB48-1	37
214030	LED Display Field LAB48-2	38
214032	LED Display Field LAB48-3	38
214036	LED Display Field LAB48-4	39
214031	Network Redundant Alarm Converter NNU5-1	39
214003	Auxiliary Case for BC216 GEH216-4	40
214130	Terminal Set/CE AKS216-1	40
214232	Terminal Set/E AKS216-2	41
214028	Battery Bracket BK216-1	41
214128	Battery Bracket BK216-1CE	41
214029	Mounting Bracket BW216-1	42
214230	Control Panel Rack/8HU RACK216-1E	42
212034	Module Carrier 19"/3HU MPL17/3	42
212030	Dummy Cover 19"/2HU AD8C-2H	43
212029	Dummy Cover 19"/3HU AD8C-3H	43
212033	Dummy Cover 19"/6HU AD8C-6H	43
214129	Decoration Foil for BC216-3CE FF216-3CE	44
212031	Mounting Kit 19"/3HU EW8C-E	44
227009	Kit 19"/3HU for Printer DPU414 DPU2-1E	44
214601	Cover IP54 for BC216 GEH-IP54-BC-1/D1	45
212027	Cabinet 19"/18HU GEH19/18	45
212028	Housing 19"/36HU GEH19/STAND	46
212032	Transparent Door 19"/36HU SIT19/STAND	46

4 Extinguishing System Controls

2189990	Extinguishing Control Panel Series LC216, Description	47
218024	Extinguishing Control/8-Area License LC216-8LB	47
2189991	Extinguishing Control Function Series BC06, Description	48
210216	Extinguishing Board BC06 EXB1-1	49
222011	Extinguishing System Interface LSS1000-1	49
223009	Control Zone Module SLM1-2	50

5 Interfaces

214033	Network Interface Module NIF5-1M	51
214027	Network Cable NWK2-1	51

214025	Serial Interface Module SIM216-1	52
214231	Interface Adapter Module IAM216-1E	52
223025	Ethernet Module ENM2-1	53
223027	Remote Access Module PSTN FZP2-1	53
223028	Remote Access Module GSM/GPRS FZG2-1	54
223041	SMS/E-Mail Transmitter Module SMS2-1/D1	55
223060	Gateway/IEC870-5-101/-104/BC216 IEC870-BC216-GW	56
223030	Long Distance Modem BCnet216 MOD-1	56
223032	Multimode Fibre Gateway BCnet216 LWL-MM-2	57
223033	Singlemode Fibre Gateway BCnet216 LWL-SM-2	57
218022	ZLT Interface License ZLT-SS	58
218023	ESPA 4.4.4 Interface License ESPA-SS	58
214176	BCnet-LBC Gateway/N.OP./6HU BCNET-LBC-GW	59
218021	LBC Sub-Unit License LBC-UZ	60
219010	Programming Cable BC216/RS232 PK216-1	60

6 Additional Modules for Fire Detection Control Panels

223024	Siren Connection Module SZ58-2	61
223026	Siren Connection Module SZ58-3	61
222007	Terminal Converter Module 16-Fold SUB58-2	62
222004	Relay Module 8-Fold/60VDC RL58-1	62
222010	Relay Module 4-Fold/230VAC RL58-2	63
229008	Flat Cable 1700mm/10-Pole FBK17-1	64

7 Protocol Printers

227003	Protocol Printer/Thermal DPU414-30B	65
227004	AC-Adapter for DPU414 PW4007-E1	65
227005	Battery for DPU414 BT4005	66
227007	Printer Cable for DPU414/1.8m 9POL.D-SUB-VERL.	66
227008	Protocol Printer/Dot-Matrix LX300	66
227010	Printer Cable for LX300/3m 25POL.D-SUB-VERL.	67
227006	Spare Paper for DPU414/1Roll MM112-402-N	67

8 Display and Operating Devices

250039	Remote Display and Operating Panel ABF216-1/INT1	68
250030	Remote Display and Operating Panel ABF216-1/A1	68
250705	Remote Display and Operating Panel ABF216-1/D1	68
250036	Remote Display and Operating Panel ABF216-1/B1	69
250033	Remote Display and Operating Panel ABF216-1/CZ1	69
250038	Remote Display and Operating Panel ABF216-1/H1	69
250035	Remote Display and Operating Panel ABF216-1/NL1	69
250037	Remote Display and Operating Panel ABF216-1/SK1	69
250046	Remote Display and Operating Panel ABF216-1/RUS1	69
250047	Remote Display and Operating Panel ABF216-1/SLO1	69
250048	Remote Display and Operating Panel ABF216-1/II	69
250049	Remote Display and Operating Panel ABF216-1/PL1	69
250050	Remote Display and Operating Panel ABF216-1/HR1	70
250009	Remote Tableau SG58-2/A1	70
250015	Remote Tableau SG58-2/NL1	70
250016	Remote Tableau SG58-2/B1	70
250018	Remote Tableau SG58-2/CZ1	71
250013	Remote Display Panel SG48-2	71
251001	Remote Indicator PA58-1	71
252010	LED Display Tableau LAT288-1	72
252011	LED Display Tableau LAT288-1CE	72
252012	Remote Tableau Drive Unit PTU288-1	73
252013	LED Connection Module LAM48-1	74
259011	LED Assembled Green/10pcs. LED-GN/10	74
259010	LED Assembled Red/10pcs. LED-RT/10	75
259012	LED Assembled Yellow/10pcs. LED-GE/10	75

259013	Cord 2 Wire for LED Connection/10pcs. LED-LEITUNG/10	75
--------	--	----

9 Conventional Detectors Series FC600

241070	Optical Smoke Detector/Conv./FC600 FC600/O	76
242070	Thermal ROR Detector/Conv./FC600 FC600/TDIFF/57	77
242071	Thermal Max Detector/Conv./FC600 FC600/TMAX/78	77

10 Accessories for Series FC600

246070	Detector Base/FC600 FC600/BR	79
246071	Detector Base with Diode/FC600 FC600/BRD	79
246072	Detector Relay Base/FC600 FC600/BREL	80

11 Conventional Detectors Series 300/ECO1000

241040	Optical Smoke Detector/Conv./300/SS 2351E	81
241041	Optical-Thermal Detector/Conv./300/SS 2351TEM	82
242040	Thermal ROR Detector/Conv./300/SS 5351E	83
242042	Thermal Max Detector/Conv./300/SS 5351TE	84
242041	Thermal Max Detector/Conv./300/SS 4351E	84
241045	Optical Smoke Detector/Conv./1000/SS ECO1003	85
241046	Optical-Thermal Detector/Conv./1000/SS ECO1002	86
242047	Thermal Max Detector/Conv./1000/SS ECO1004T	87
242045	Thermal ROR Detector/Conv./1000/SS ECO1005	87
242046	Thermal Max Detector/Conv./1000/SS ECO1005T	88

12 Analogue Detectors and Modules Series 200/500

240013	Ionisation Smoke Detector/Anal./200/SS 1251E	90
241010	Optical Smoke Detector/Anal./200/SS ND2251EM	90
241050	Optical Laser Detector/Anal./200/SS 7251	91
241020	Optical-Thermal Detector/Anal./200/SS 2251TEM	92
241051	Optical-Thermal-CO-IR Detector/Anal./200/SS 2251CTLE	93
242002	Thermal Detector/Anal./200/SS 5251EM	94
241019	Optical Filtrex Smoke Detector/Anal./500/SS FTX-P1	94
249046	Monitor Module/Anal./500/SS M503ME	95
249100	Monitor Module 1xSurv.In/Anal./200/SS M210E	96
249101	Monitor Module 2xSurv.In/Anal./200/SS M220E	96
249102	Module 2xSurv.In 1xRel.Out/Anal./200/SS M221E	97
249115	Monitor Module 10xSurv.In/Anal./200/SS IM-10	97
249103	Control Module 1xSurv.Out/Anal./200/SS M201E	98
249105	Control Module 1xRel.Out/Anal./200/SS M201E-240	98
249106	Control Module 1xRel.Out-DIN/Anal./200/SS M201E-240-DIN	99
249116	Control Module 6xRel.Out/Anal./200/SS CR-6	99
249045	Conventional Zone Module/Anal./500/SS M512ME	100
249104	Conventional Zone Module/Anal./200/SS M210E-CZ	100
249092	Multi Module/Mounting Rail MEA244-1/TR	101
249095	Multi Module/Panel-Mounting MEA244-1/E	102
249090	Limit Switch/Anal./500/SS EDS500-1	103
249091	Monitor Module/Box/Anal./500/SS ÜMB500-1	103
249003	Isolator Module/Anal./500/200/SS ISM1-2	103

13 Accessories for Series 300/ECO1000/200/500

246008	Detector Base/Conv./400/100/300/SS B401RM	105
246100	Detector Relay Base/Conv./300/SS B324RL	105
246101	Detector Relay Base/Conv./300/SS B312RL	106
246102	Detector Relay Base/Conv./300/SS B312NL	106
246140	Detector Base/Conv./1000/SS ECO1000BR1000	107
246141	Detector Relay Base/Conv./1000/SS ECO1000BREL24L	107
246142	Detector Relay Base/Conv./SS ECO1000BREL12L	108
246143	Detector Relay Base/Conv./SS ECO1000BREL12NL	108

246002	Detector Base/Anal./500/200/SS B501	109
246015	Detector Base/Anal./500/200/SS B501DG	109
246016	Detector Relay Base/Anal./500/200/SS B524RTE	110
246013	Isolator Detector Base/Anal./500/200/SS B524IEFT-1	110
246018	Detector Heater Base/Anal./500/SS B524HTR	111
246012	Detector Base Filtrex/Anal./500/SS B524FTXE	111
246113	Zonal Display Unit/Conv./300/SS S300ZDU	112
246111	Remote Program and Test Unit/Conv./300/SS S300RPTU	112
246112	Satellite Unit for Remote Programming/Conv./300/SS S300SAT	113
246150	Remote Test Unit/Conv./300/1000/SS ECO1000RTU	113
249212	Battery for ECO1000RTU 6V-V11GA	114
249214	Battery for ECO1000RTU 6V-476A	114
246006	Base Adapter/SS MZP500-1	114
246009	Surface Mounting Kit/SS SMK400	115
246010	Recessed Mounting Kit/SS RMK400	115
249012	Wet Base Shroud/SS WB1	116
246017	Cover Plate for Base Bx01/Bx24 BC-Bx01	116
249109	Base for Mounting Plate for M200/SS M200E-PMB	116
249110	Base for Carrier Rail for M200/SS M200E-DIN	117
249108	Surface Mounting Box for M200/SS M200SMB	117
249111	Surface Mounting Box for MS200/SS M200SMB-KO	117
249117	Surface Mounting Box for Multimodule/SS M200-SMB-MM	118
249004	Surface Mounting Box for M500/SS SMB500	118
249014	Power Supply Unit for Detector Heater MH-TR1	119
249027	Detector Heater/Anal./500/200/SS MH500-1	119
249020	Address Module/Conv. NG58-1	119
249044	Detector Mounting Bracket MMW1-1	120
249635	Trapezoid Steel Bracket TBH800-1	121
249640	Protective Cage BWS-1/D1	121
244009	Duct Detector/400/OM DH400P	122
241038	Optical Smoke Detector/Conv./100/SS 2151E-LC	122
244008	Duct Detector Housing/Anal./500/200/SS DH500	123
244005	Duct Detector Pipe/0.3-0.6M/SS ST-1.5	123
244010	Duct Detector Pipe/0.6-1.2M/SS ST-3	124
244011	Duct Detector Pipe/1.2-2.4M/SS ST-5	124
244012	Duct Detector Pipe/2.4-3.7M/SS ST-10	124
249047	Replacement Filter for Filtrex RF-FTX	124

14

Conventional Detectors Series 65/ORBIS

240027	Ionisation Smoke Detector/Conv./65/Apo GI-55000-217	126
241026	Optical Smoke Detector/Conv./65/Apo GO-55000-317	126
242024	Thermal ROR Detector/Conv./65/Apo GD-55000-122	127
242025	Thermal ROR Detector/Conv./65/Apo GD-55000-127	127
242026	Thermal ROR Detector/Conv./65/Apo GD-55000-132	128
242027	Thermal Max Detector/Conv./65/Apo GM-55000-137	129
241060	Optical Smoke Detector/Conv./ORBIS/Apo OP-12001	129
241061	Optical-Thermal Detector/Conv./ORBIS/Apo OH-13001	130
242030	Thermal ROR Detector/Conv./ORBIS/Apo HT-11001	131
242031	Thermal Max Detector/Conv./ORBIS/Apo HT-11002	132
242032	Thermal ROR Detector/Conv./ORBIS/Apo HT-11003	132
242033	Thermal Max Detector/Conv./ORBIS/Apo HT-11004	133
242034	Thermal ROR Detector/Conv./ORBIS/Apo HT-11005	134
242035	Thermal Max Detector/Conv./ORBIS/Apo HT-11006	134

15

Analogue Detectors and Modules Series XP95/DISCOVERY

240024	Ionisation Smoke Detector/Anal./XP95/Apo AI-55000-520	136
241023	Optical Smoke Detector/Anal./XP95/Apo AO-55000-620	136
242023	Thermal Detector/Anal./XP95/Apo AW-55000-420	137
241030	Optical-Thermal Detector/Anal./XP95/Apo AMS-55000-885	138
240026	Ionisation Smoke Detector/Anal./Disc/Apo AI-58000-500	138
241027	Optical Smoke Detector/Anal./Disc/Apo AO-58000-600	139

242028	Thermal Detector/Anal./Disc/Apo AD-58000-400	140
241022	Optical-Thermal Detector/Anal./Disc/Apo AMS-58000-700	141
243100	CO-Detector/Anal./Disc/Apo AC-58000-300	141
249061	Monitor Module/Anal./XP95/Apo ÜMM-55000-833	142
249060	Monitor Module-Interrupt/Anal./XP95/Apo ÜMI-55000-832	142
249072	Monitor Module/Anal./XP95/Apo ÜMS-55000-841	143
249076	Module 1xSurv.In 1xRel.Out/Apo 55000-847	143
249077	Module 3xSurv.In 3xRel.Out/Apo 55000-588	144
249078	Module 1xSurv.In 1xRel.Out-230/Apo 55000-875	145
249073	Control Module/Anal./XP95/Apo SMÜ-55000-852	145
249074	Control Module/Anal./XP95/Apo SMK-55000-849	146
249075	Conventional Zone Module/Anal./XP95/Apo GWM-55000-845	146
249029	Isolator Module/Anal./Apo ISM1-3	147
249070	Isolator Module/Board/Apo 43781-552	148

16 Accessories for Series 65/ORBIS/XP95/DISCOVERY

246021	Detector Base/Conv./60/65/Apo GSA-45681-200	149
246035	Detector Base/Conv./60/65/Apo 45681-251	149
246042	Detector Base/Conv./ORBIS/Apo MB-00001	150
246041	Detector Relay Base/Conv./ORBIS/Apo RB-10004	150
246025	Detector Base/Anal./Apo ASA-45681-210	151
246036	Isolator Detector Base/Anal./Apo AISA-45681-321	151
246037	Detector Relay Base/Anal./XP95/DISC/Apo ASR-45681-242	152
246034	Detector Base/Anal./Apo 45681-250	153
246029	Conduit Box/Apo SZA-45681-204	153
246030	Backplate/Apo SZPL-45681-233	153
246031	Duct Detector Housing/Anal./Apo LG-53546-016	154
246032	Detector Heater/Conv./60/65/Apo MH60-1	154
246033	Detector Heater/Anal./Apo MH95-1	155
249028	Address Module/Conv./Apo NG60-1	155
249039	Address Cards/100pcs./Anal./XP95/Disc/Apo CK-38531-771	156

17 Manual Call Points

245302	Manual Call Point/EN 54/Red/Conv. HFM/3/11/02	157
245356	Manual Call Point/Red/Conv. HM/3/11/01/02	157
245352	Manual Call Point/Blue/Conv. HM/5/11/02/02	158
245417	Manual Call Point/Blue/Conv. HM/5/11/18/02	159
245355	Manual Call Point/Yellow/Conv. HM/1/11/05/02	159
245362	Manual Call Point/Red/Anal./SS HFM/3/22/02	160
245372	Manual Call Point/Blue/Anal./SS HM/5/22/02/02	161
245415	Manual Call Point/Blue/Anal./SS HM/5/22/18/02	161
245392	Manual Call Point/Yellow/Anal./SS HM/1/22/05/02	162
245389	Manual Call Point/Grey/Anal./SS HM/7/22/03/02	163
245402	Manual Call Point/EN 54/Red/Anal./Apo HFM/3/32/02	164
245395	Manual Call Point/Blue/Anal./Apo HM/5/32/02/02	164
245429	Manual Call Point/Blue/Anal./Apo HM/5/32/18/02	165
245396	Manual Call Point/Yellow/Anal./Apo HM/1/32/05/02	166
249096	MCP Coding Module MCM1-1	166
249633	Protective Cover V2A for Manual Call Point/Red WG/ROT-E-1	167
249634	Protective Cover V2A for Manual Call Point/Blue WG/BLAU-E-1	167
249636	Protective Cover V2A for Manual Call Point/Yellow WG/GELB-E-1	168
249631	Protection Kit IP54 for Manual Call Point HFM/HM-ZS-IP54	168
219006	Key for Manual Call Point SCH-HFM/HM	169
2171612	Replacement Glass for Manual Call Point ET-SCH-HFM	169
2171620	Replacement Glass for Manual Call Point/Red ET-SCH-HM-RT	169
2171621	Replacement Glass for Manual Call Point/Blue ET-SCH-HM-BL	169
2171619	Replacement Glass for Manual Call Point/Yellow ET-SCH-HM-GE	169
249024	Special Designation for Manual Call Point HM/BESCH	170
245040	Manual Call Point/Red/200/Glass MCP5A-RP07FG	170
245041	Manual Call Point/Red/200/ISM/Glass MCP5A-RP08FG	170
245042	Manual Call Point/Red/200/Flexi MCP5A-RP07FF	171

245043	Manual Call Point/Red/200/ISM/Flexi MCP5A-RP08FF	172
245014	Manual Call Point/Anal./XP95/Apo 55000-905	172
245019	Surface Mount Box/MCP5A SR	173
245012	Surface Mount Box/MCP5A SR3T	173
249213	Glass for MCP Series/10pcs. G21140	173

18 Devices for Hazardous Areas

240015	IS Ionisation Smoke Detector/Conv./100/SS 1151EIS	174
242015	IS Thermal ROR Detector/Conv./400/SS 5451EIS	174
241090	IS Optical Smoke Detector/Conv. SLR-E-IS	175
240023	IS Ionisation Smoke Detector/Conv./60/Apo GIEX-55000-212	175
246090	IS Detector Base/Conv. YBN-R/4IS	176
246023	IS Detector Base/Conv./60/Apo GSEX-45681-207	176
228003	Safety Barrier/Conv. ES58-2	177
240025	IS Ionisation Smoke Detector/Anal./XP95/Apo AIEX-55000-540	177
241024	IS Optical Smoke Detector/Anal./XP95/Apo AOEX-55000-640	178
242036	IS Thermal Detector/Anal./XP95/Apo AWEX-55000-440	178
246027	IS Detector Base/Anal./Apo ASEX-45681-215	179
228004	Safety Barrier/Anal./XP95/Apo AES-29600-098	180
228005	Protocol Interface/Anal./XP95/Apo API-55000-855	180
241025	IS Optical Smoke Detector/Anal./200/SS 2251EIS	181
228006	Safety Barrier/Anal./200/SS Y72221	181
228007	Protocol Interface/Anal./200/SS IST200	182
245680	IS Manual Call Point/Red/Conv. DC21	182

19 RF Devices

249201	RF-Interface/4Rel FUIF511-27D	184
241029	Optical Smoke Detector/RF 55000-680	185
242029	Thermal ROR Detector/RF 55000-480	185
245020	Manual Call Point/Red/RF HFM/153-27D	185
245021	Manual Call Point/Blue/RF HM/152-27D	186
246040	Detector Base/Conv./RF 215-27D	187
249202	RF Interface/Anal./SS M500RFE-AS	187
249203	RF-Interface/4Rel M400RFE-AS	188
241036	Optical-Thermal Detector/RF/complete 2100RFT-AS	189
245022	Manual Call Point/Red/RF M400DKMR-AS	189
245023	Manual Call Point/Blue/RF M400DKMB-AS	190
249215	Battery for 2100RFT-AS CR123	190
310020	Lithium Battery 9V/1,2Ah	191
310021	Lithium Battery 3,6V/2,2Ah	191

20 Special Detectors

242010	Thermal Max Detector IP67/Conv. SWM-1KL-57	192
242012	Thermal Max Detector IP67/Conv. SWM-1KL-80	192
242013	Thermal Max Detector IP67/Conv. SWM-1KL-100	193
242014	Thermal Max Detector IP67/Conv. SWM-1KL-140	194
243002	Flame Detector UV/Conv. NFD-68-P+SOCKEL	194
243005	Flame Detector UV/Conv. UV-03	195
243004	Flame Detector IR/Conv. IR-10	195
244022	Beam Smoke Detector/Conv./SS 6500R	196
244023	Beam Smoke Detector/Test/Conv./SS 6500RS	197
244020	Beam Smoke Detector/Anal./SS 6500	198
244021	Beam Smoke Detector/Test/Anal./SS 6500S	199
244024	Reflector/6500/75-100M BEAMLRK	200
244025	Multi-Mount Kit/6500 BEAMMMK	200
244026	Surface Mount Kit/6500 BEAMSMK	201
244610	Beam Smoke Detector/Conv. FR2000	201
244637	Linear Heat Detection Unit Alarmline/Conv. LWM-1	202
244628	Sensing Cable/Blue/LWM SK1800010	203
244622	Sensing Cable/Black/LWM SK1800011	203

244624	Sensing Cable/Stainless Steel/LWM SK11800013	204
244638	Interconnector/LWM ZV22-11800-103	204
244639	Termination Connector/LWM AV22-11800-102	204
244629	Mounting Base TC358	205
244630	Mounting Clip 3040/LSK	205
244631	Sensor Cable Monitoring System/Conv. SKM-03	205
244632	Sensor Cable Monitoring System/Anal./XP95/Apo SKM-95	206
244633	Standard Sensor Cable/Red/SKM SK-ROT	206
244634	Sensor Cable/Black/SKM SK-SCHWARZ	207
244620	Gas Detector Methane GM-METHAN	207
244621	Gas Detector Propane GM-PROPAN	207
244619	Gas Detector 230V GM-MEIBU-230V	208
222013	Detector Reset Module MQZ1000-1	208
241603	Optical Battery Smoke Detector FL10022H	209

21

Aspiration Smoke Detection Systems

244030	Aspiration Smoke Detection System A211E-LSR	210
244031	Aspiration Smoke Detection System A222E-LSR	211
244032	Aspiration Smoke Detection System Housing A310E	212
244033	Aspiration Smoke Detection System Housing A320E	213
244180	Aspiration Smoke Detection System Housing TP-1	213
244181	Aspiration Smoke Detection System Housing TP-2	214
244186	Detector Module DM-TP-80L	215
244182	Detector Module DM-TP-25-L	215
244183	Detector Module DM-TP-05-L	216
244184	Front Foil FW-TP-1A	216
244185	Front Foil FW-TP-2	216
244300	Aspiration Smoke Detection System Housing TT-1	217
244302	Detector Module DM-TT-80-L	217
244303	Detector Module DM-TT-25-L	218
244304	Detector Module DM-TT-05-L	218
244305	Front Foil FW-TT-1	218
244155	Aspiration Smoke Detection System T-SS	219
244170	Aspiration Smoke Detection System VLS-304	220

22

Accessories for Aspiration Smoke Detection Systems

244111	Sensor Pipe/PVC ROHR-PVC	221
244248	Sensor Tube/PVC/25 SCHL-PVC/25	221
244112	Pipe Fitting/BOW90L BOGEN-90	221
244113	Pipe Fitting/BOW90S WINKEL-90	221
244114	Pipe Fitting/BOW45 WINKEL-45	221
244115	Pipe Fitting/T90 T-STÜCK-90	221
244116	Pipe Fitting/T45 T-STÜCK-45	221
244118	Pipe Fitting/ADA MUFFE	221
244119	Pipe Fitting/CAP KAPPE	222
244125	Pipe Connector/25 RKL25	222
244235	Check Valve/Spring-loaded/R25 RVFED-25	222
244240	Ceiling Duct/complete DDF-KOMPL.	222
244201	Aspiration Tube DN-12x9	222
244241	Air Filter for ASDS/complete LF-RAS	222
244237	Three-way Ball Valve 3MKH	222
244236	Condensate Separator DN25 KABS-25	222
2449999	Aspiration Hole Reduction Foils, Overview	223
244233	Banderole for Aspiration Hole Reduction Foil BA-AREDF	223
244234	Plastic Clip for Aspiration Hole Reduction Foil/DF KC-AREDF-TK	223
244128	Glue/Tangit/0.12kg KLEB-RAS-01	223
244129	Glue/Tangit/0.25kg KLEB-RAS-02	224
244130	Glue/Tangit/0.5kg KLEB/RAS-05	224
244126	Glue/Tangit/1kg KLEB/RAS	224
244131	Cleaner/Tangit/0.12l REIN-RAS-01	224
244127	Cleaner/Tangit/1l REIN/RAS	224

23

Labels

249211	Detector Label/Sheet/8pcs. BME/BEZ-BOG	225
249240	Detector Label/Large/Sheet/8pcs. BME/GR-BOG	225
249242	Detector Label/Small/Sheet/20pcs. BME/KL-BOG	226
249011	Detector Label BME/BEZ	226
249040	Detector Label/Large BME/GR	227
249042	Detector Label/Small BME/KL	227
249041	Indicating Label/FDCP BME/BMZ	227

24

Optical and Acoustic Devices, conventional

355001	Sounder/WM/12-24V/Red/Multitone/106dB MS1R	228
355014	Sounder/WM/12-24V/White/Multitone/106dB MS1W	228
355101	Sounder/WM/12-24V/Red/Multitone/103dB EMA1224B4R	229
355102	Sounder/FB/12-24V/White/Multitone DBS1224B4W	229
356001	Strobe/WM/24V/Red/Orange MS2RA	230
356650	Strobe/WM/24V/Red/Red MS2RR/24V	230
356671	Strobe/24V/Orange BE/A/S/2.0/24VBMT	230
356672	Strobe/24V/Red BE/R/S/2.0/24VBMT	231
351650	Sounder-Strobe/24V/Red/Red MS5RR	231

25

Optical and Acoustic Devices, ADM Series XP95/200

355133	Sounder/WB/XP95ISM/White/Alert 45681-277	233
355131	Sounder/WB/XP95ISM/White/Slow Whoop 45681-290	233
355132	Sounder/WB/XP95ISM/White/DIN 45681-300	234
355124	Sounder/WM/XP95/Red/Alert/100dB 55000-278	235
355125	Sounder/WM/XP95/Red/Slow Whoop/100dB 55000-276	235
355130	Sounder/WB/XP95RI/White/Alert 45681-276	236
355134	Sounder-Strobe/WB/XP95ISM/White/Clear/Alert 45681-330	236
355135	Sounder-Strobe/WB/XP95ISM/White/Clear/Slow Whoop 45681-332	237
355136	Sounder-Strobe/WB/XP95ISM/White/Clear/DIN 45681-334	238
355137	Sounder-Strobe/WM/XP95ISM/Red/Multitone/100dB 55000-293	239
355138	Sounder-Strobe/WM65/XP95ISM/Red/Multitone/100dB 55000-298	239
356020	Strobe/FB/XP95/White/Red 55000-877	240
356022	Strobe/FB/XP95/White/Clear 55000-878	241
356023	Strobe/FB/XP95/White/Orange 55000-879	241
355160	Sounder/WM/200/Red/Multitone/100dB WMSOU-RR-P01	242
355161	Sounder/WM/200ISM/Red/Multitone/100dB WMSOU-RR-P02	242
355162	Sounder-Strobe/WM/200/Red/Multitone/100dB WMSST-RR-P01	243
355163	Sounder-Strobe/WM/200ISM/Red/Multitone/100dB WMSST-RR-P02	244
355164	Sounder/WB/200/White/Multitone IBSOU-DD-P01	245
355165	Sounder/WB/200ISM/White/Multitone IBSOU-DD-P02	246
355166	Sounder-Strobe/WB/200/White/Red/Multitone IBSST-DR-P01	247
355167	Sounder-Strobe/WB/200ISM/White/Red/Multitone IBSST-DR-P02	248
356140	Strobe/WM/200/Red WMSTR-WR-P01	249
356141	Strobe/WM/200ISM/Red WMSTR-WR-P02	249

26

Accessories for Optical and Acoustic Devices

359003	Base for Sounder & Strobe/IP44/Red/EMA ELPBR	251
359004	Base for Sounder & Strobe/IP55/Red/EMA ESBR	251
359008	Base for Sounder & Strobe/IP66/Red/EMA ESBRs	251
359005	Lid for Sounder/DBS/Red DBSLIDR	252
359006	Lid for Sounder/DBS/White DBSLIDW	252
359020	Lid for Detector Base Sounder/White 45681-292	252
359021	Lid for Detector Base Sounder/Red 45681-293	253
359022	Mounting Plate for Sounder/WB/XP95 38531-810	253
359023	Housing IP67 for Strobe/FB/XP95 29600-318	253
359040	Base Sounder & Strobe/IP24/White LPBW	254
359043	Base Sounder & Strobe/IP44/White SDBW	254
359044	Base Sounder & Strobe/IP65/White WDBW	255

359041	Base Sounder & Strobe/IP44/Red SDBR	255
359042	Base Sounder & Strobe/IP65/Red WDBR	256
359049	Mounting Plate for Sounder/200/5pcs. DBSPD/5	256

27 Fire Brigade Key Boxes and Accessories

265740	Fire Brigade Key Box FSK700-2/D1	257
265742	Fire Brigade Key Box FSK700-2S2/D1	258
265751	Flush Mounting Frame for FSK700-2 EZ700-2/D1	259
265818	Flush Mounting Frame with Drilling Protection for FSK700-2 EZBS700-2	259
249650	Protective Cover for FSK700-2 WSD-FSK	259
237700	Power Supply for FSK Heating NT700-1	260
265900	Fire Brigade Keysafe Adapter AD900-1/D1	260
265752	Inner Door for FSK700-2/A ITA-2	261
265753	Inner Door for FSK700-2/DBUK ITB-2	261
265757	Inner Door for FSK700-2/DBUM ITF-2	262
265765	Steel Column V2A for FSE-MP1 + Strobe HSFSK700-2/D6	262
265760	Steel Column V2A Standard HSFSK700-2/D1	262
265761	Steel Column V2A for F0345 HSFSK700-2/D2	263
265762	Steel Column V2A for F0345 + Strobe HSFSK700-2/D3	263
265763	Steel Column V2A for Strobe HSFSK700-2/D4	264
265764	Steel Column V2A for FSE-MP1 HSFSK700-2/D5	264
265660	Unblocking Element F0345	265
265661	Unblocking Element for Half Cylinder FSE-MP1	265
268009	Fire Brigade Key Deposit/Surface Mount. FASB-AP	265
268010	Fire Brigade Key Deposit/Flush Mount. FASB-UP	266
265019	Cylinder for Steel Sheet Mounting FASB LST102	266
268012	Key for Fire Brigade Key Deposit 882AML102	266

28 Fire Brigade Control and Display Devices

250008	Fire Brigade Control Unit FBF58-2	267
250740	Fire Brigade Control Unit FBF900-1/D1	267
250741	Fire Brigade Control Unit FBF900-2/D1	268
250707	Fire Brigade Display Panel FAT900-1/D1	269
250900	Fire Brigade Display Panel FAT900-2/D1	270
250901	Redundant Transmission Adapter ADFAT900-2/D1	270
250717	Fire Brigade Orientation Panel FOTR900-1/D1	271
250902	Fire Brigade Orientation Panel FOTR900-2/D1	271
250606	Mounting Frame 19"/6HU RAHMEN	272
250608	Mounting Frame 19"/6HU RAHMEN/FBF	273
268007	Fire Brigade Map Box FWP-1	273
250709	Fire Brigade Map Box FPKCLR900-1	273
250713	Fire Brigade Map Box FPKPHZR900-1	274

29 Fire Controls

217001	Smoke Switch RS24	275
260002	Control Device for Magnetic Lock Clamp 2498	275
261003	Magnetic Clamp/500N 1330	276
261004	Magnetic Clamp/Reset/500N 1350	276
261005	Magnetic Clamp/Reset/150mm/500N 1370/15	276
261006	Magnetic Clamp/Reset/300mm/500N 1370/30	277
261008	Magnetic Clamp/1000N 1340	277
261009	Magnetic Clamp/Reset/1000N 1360	277
261010	Magnetic Clamp/Reset/150mm/1000N 1380/15	278
261011	Magnetic Clamp/Reset/300mm/1000N 1380/30	278
261017	Magnetic Lock Clamp/4900N 1390	279
261018	Magnetic Lock Clamp/LED/4900N 1392	279
261019	Magnetic Lock Clamp/2750N 1388	279

30**Telephone Dialling Devices**

320007	Automatic Telephone Dialling Device TWG805-1A	281
320008	Automatic Telephone Dialling Device TWG805-1D	282
329012	Relay Module RL404-1	283
329013	Line Monitoring Module TUM805-1	284
329014	Dialogue Module DPM805-1	285
329015	Telephone Speaker Set TEL805-1	285
329016	Plug-in Power Supply STN805-1	285

31**Batteries and Power Supply Devices**

310010	Stand-by Battery 6V/1,2Ah	287
310006	Stand-by Battery 12V/2,3Ah	287
310001	Stand-by Battery 12V/7Ah	287
310002	Stand-by Battery 12V/18Ah	287
310012	Stand-by Battery 12V/20Ah	288
310003	Stand-by Battery 12V/26Ah	288
310004	Stand-by Battery 12V/45Ah	289
310005	Stand-by Battery 12V/65Ah	289
317001	Power Supply 24V/3A MT3400L	289
317100	Power Supply 24V/1Amp-Stabilized NG1-1S	290
317101	Power Supply 24V/2Amp-Stabilized NG2-1S	290
317102	Power Supply 24V/4Amp-Stabilized NG4-1S	290
317020	Power Supply Module NTM2402-1	291
317021	Power Supply Module NTM2408-1	292
317030	Power Supply Housing NTG24-1	292
317031	Power Supply Housing NTG24-1/CE	293
317032	Power Supply Housing NTG24-2	293
317033	Battery Bracket BK24-1	294
229010	Voltage Stabiliser 24VDC STAB24-1	294

32**Software**

218008	Parameter Setup Software PARSOFT-2	295
218041	Alarm Monitoring Software License ALVIS/F	295
218044	Alarm Monitoring Interface License BC216 ALVIS-BC216	296
218045	Alarm Monitoring Interface Licence ALVIS-LBC1000	296

33**Tools**

249059	Test Module/100/200/SS MOD400R	297
249036	Test Gas Can SOLOA3-001	297
249051	Smoke Detector Test Tool SOLO330	297
249052	Detector Removal Tool SOLO200	298
249053	Telescopic Pole SOLO100	298
249054	Extension Pole SOLO101	298
249058	Test Set/Conv./S60/Apo TS-53832-020	298
249023	Smoke Sticks/10pcs. RE2	299

34**Miscellaneous**

229005	E.O.L. Resistor/100pcs. 5,6K/0,33W	300
229004	Resistor/100pcs. 1K/0,33W	300
229006	Diode/100pcs. 1N4004	300
180001	Banknote Contact 12V-24V GK1224	300

1

Fire Detection Control Panels Series BC06

210205

Fire Detection Control Panel BC06-1/INT1

The Fire Detection Control Panel BC06-1/INT1 is a compact control panel for small conventional fire detection systems. Depending on the level of expansion, fire detectors, fault detectors and condition detectors can be connected to a maximum of 6 conventional detector lines.



An output for an alarming device is provided as well. The control panel was tested by VdS for compliance according to the European standards EN 54-2 and EN 54-4.

The control panel is integrated in a wall-mount cabinet. The cabinet consists of powder coated steel sheet base and a removable plastic cabinet cover. In the basic version, the control panel contains 4 conventional detector zones, 2 parameterisable inputs and 2 relay outputs. The Fire Detection Control Panel Series BC06 can be extended to 6 detector zones by the installation of the Zone Extension Board ZEB2-1. As an alternative to a zone extension board, the control panel can be equipped with the Extinguishing Board EXB1-1 to create a combined fire detection and extinguishing control panel for single-zone extinguishing systems, according to the European standard EN 12094-1. In addition, the wall-mount cabinet can accommodate an optional componentry (Relay Module RL58-1 or RL58-2, Siren Connection Module SZ58-3, etc.) as well as stand-by batteries 2 × 12V/max. 7Ah.

The initial commissioning of the control panel is significantly facilitated by the practical factory settings. The system-specific parameterisation of the control panel can be directly accomplished via the keypad of the integrated display and operating field without the requirement of any additional support.

Essential features

- ◆ RISC microprocessor technology
- ◆ Administration of up to 6 detector zones for manual call points, automatic fire detectors with or without alarm verification and fault detectors with or without self-resetting property
- ◆ With the help of the optional MCP Coding Module MCM1-1, alarms from automatic detectors and manual call points, which are both connected to the same detector line, can be distinguished by the Fire Detection Control Panel Series BC06
- ◆ The type of line terminator (end-of-line resistor or end-of-line capacitor) can be selected via parameterisation
- ◆ Administration of alarming devices with the possibility of individual activation via an 'and/or' combination
- ◆ Summary LED indicators for information about all current events
- ◆ 8 LED pairs are automatically assigned to parameterised zones or the conditions of the extinguishing module and display the activation, disablement and fault condition of the zones
- ◆ Displays can be labelled individually with labelling strips, which are inserted into the front foil
- ◆ Event memory for the last 50 events in chronological order, to be output via the serial interface
- ◆ Monitored output for connection of external signalling devices with display of activation, fault or disablement
- ◆ 2 dry contact outputs. These outputs are pre-set in the factory settings according to EN 54 standards (summary alarm and summary fault)
- ◆ 8 open-collector outputs, that automatically signal the activated condition of each zone and one summary output each for fault condition and disabled condition of the zones
- ◆ Button 'Panel reset' for common reset of all current events
- ◆ 3 authorisation levels for operation and parameterisation, secured by numeric codes
- ◆ A mounting position for a Serial Interface Module SIM06-1, for connection of a serial protocol printer
- ◆ Control panel case provides space for accommodating stand-by batteries max. 2 × 12V/7Ah.

Specifications

Mains voltage	230VAC +10/-15%, 50Hz
Connection power	60VA
Output voltage	typ. 27.6VDC
Output peak current	max. 1.8A
Output current siren output	max. 1A
Connection of external devices	typ. 0.8A, system-specific
Current consumption at 24V (without optional modules)	typ. 70mA (end-of-line resistor 5.6kOhm) typ. 55mA (end-of-line capacitor 47µF)
Line voltage	typ. 20V (end-of-line resistor 5.6kOhm) typ. 23V (end-of-line capacitor 47µF)
Line current	typ. 3.7mA (end-of-line resistor 5.6kOhm) typ. 0.35mA (end-of-line capacitor 47µF)
Line termination	5.6kOhm or 47µF
Line resistance	max. 50 Ohm per core
Ambient temperature	-5°C to +50°C
Dimensions W × H × D	330 × 330 × 90 (mm)
Colour	grey white, RAL 9002
Weight without batteries	approx. 3kg
Approval	tested to EN 54-2, -4, EN 12094-1 by VdS

Cross-references	Page	Art.Nr.	Name	Type
	50	223009	Control Zone Module SLM1-2	
	49	210216	Extinguishing Board BC06 EXB1-1	
	166	249096	MCP Coding Module MCM1-1	
	66	227008	Protocol Printer/Dot-Matrix LX300	
	65	227003	Protocol Printer/Thermal DPU414-30B	
	63	222010	Relay Module 4-Fold/230VAC RL58-2	
	62	222004	Relay Module 8-Fold/60VDC RL58-1	
	4	210215	Serial Interface Module SIM06-1	
	61	223026	Siren Connection Module SZ58-3	
	287	310001	Stand-by Battery 12V/7Ah	
	4	210210	Zone Extension Board ZEB2-1	

210200 Fire Detection Control Panel BC06-1/D1

Functions, specifications and cross-references are equal to the Fire Detection Control Panel BC06-1/INT1 but the manual comes in German language.

210204 Fire Detection Control Panel BC06-1A/D1

Same design as Fire Detection Control Panel BC06-1, but with two separately monitored and individually actuated independent alarming devices with maximum 0.5A continuous output current per device. For each alarming device, separate parameters for 'and/or'-combinations can be set.

Specifications

Mains voltage	230VAC +10/-15%, 50Hz
Connection power	60VA
Output voltage	typ. 27.6VDC
Output peak current	max. 1.8A
Output current siren outputs	2 × max. 0.5A
Connection of external devices	typ. 0.8A, system-specific
Current consumption at 24V (without optional modules)	typ. 70mA (end-of-line resistor 5.6kOhm) typ. 55mA (end-of-line capacitor 47µF)
Line voltage	typ. 20V (end-of-line resistor 5.6kOhm) typ. 23V (end-of-line capacitor 47µF)
Line current (without fire detector)	typ. 3.7mA (end-of-line resistor 5.6kOhm) typ. 0.35mA (end-of-line capacitor 47µF)
Line termination	5.6kOhm or 47µF

Line resistance	max. 50 Ohm per core
Ambient temperature	-5°C to +50°C
Dimensions W × H × D	330 × 330 × 90 (mm)
Colour	grey white, RAL 9002
Weight without batteries	approx. 3kg
Approval	tested to EN 54-2, -4, EN 12094-1 by VdS

210209 Fire Detection Control Panel BC06-2/INT1

Same design as Fire Detection Control Panel BC06-1, but includes a 4-digit, non-resettable alarm counter in the display and operating field, according to EN 54-2.



Specifications

Mains voltage	230VAC +10/-15%, 50Hz
Connection power	60VA
Output voltage	typ. 27.6VDC
Output peak current	max. 1.8A
Output current siren output	max. 1A
Connection of external devices	typ. 0.8A, system-specific
Current consumption at 24V (without optional devices)	typ. 70mA (end-of-line resistor 5.6kOhm) typ. 55mA (end-of-line capacitor 47μF)
Line voltage	typ. 20V (end-of-line resistor 5.6kOhm) typ. 23V (end-of-line capacitor 47μF)
Line current	typ. 3.7mA (end-of-line resistor 5.6kOhm) typ. 0.35mA (end-of-line capacitor 47μF)
Line termination	5.6kOhm or 47μF
Line resistance	max. 50 Ohm per core
Ambient temperature	-5°C to +50°C
Dimensions W × H × D	330 × 330 × 90 (mm)
Colour	grey white, RAL 9002
Weight without batteries	approx. 3kg
Approval	tested to EN 54-2, -4, EN 12094-1 by VdS

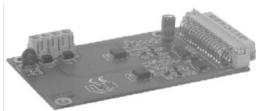
Cross-references	Page	Art.Nr.	Name	Type
	50	223009	Control Zone Module SLM1-2	
	49	210216	Extinguishing Board BC06 EXB1-1	
	166	249096	MCP Coding Module MCM1-1	
	66	227008	Protocol Printer/Dot-Matrix LX300	
	65	227003	Protocol Printer/Thermal DPU414-30B	
	63	222010	Relay Module 4-Fold/230VAC RL58-2	
	62	222004	Relay Module 8-Fold/60VDC RL58-1	
	4	210215	Serial Interface Module SIM06-1	
	61	223026	Siren Connection Module SZ58-3	
	287	310001	Stand-by Battery 12V/7Ah	
	4	210210	Zone Extension Board ZEB2-1	

210208 Fire Detection Control Panel BC06-2/D1

Functions, specifications and cross-references are equal to the Fire Detection Control Panel BC06-2/INT1 but the manual comes in German language.

210210 Zone Extension Board ZEB2-1

The Zone Extension Board ZEB2-1 extends the Fire Detection Control Panel Series BC06 by 2 detector zones in conventional technology.



Features

- ♦ 2 detector lines in conventional technology, that can be individually configured as detector zone for manual call points, automatic fire detectors with or without alarm verification and fault detectors with or without self-resetting property
- ♦ By means of the optional MCP Coding Module MCM1-1, alarms from automatic detectors and manual call points, which are both connected to the same detector line, can be distinguished
- ♦ The type of line terminator (end-of-line resistor or end-of-line capacitor) can be selected separately for both zones of the Zone Extension Board ZEB2-1 via parameterisation at the control panel
- ♦ Monitoring of detector lines for wire breakage, short circuit and earth fault
- ♦ The assignment of detector lines for activation of alarming devices can be set at the Fire Detection Control Panel BC06

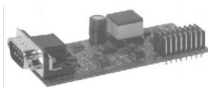
Specifications

Current consumption at 24V	typ. 14mA (end-of-line resistor 5,6kOhm) typ. 7mA (end-of-line capacitor 47µF)
Line voltage	typ. 20V (end-of-line resistor 5.6kOhm) typ. 23V (end-of-line capacitor 47µF)
Line current	typ. 3.7mA (end-of-line resistor 5.6kOhm) typ. 0.35mA (end-of-line capacitor 47µF)
Line termination	5.6kOhm or 47µF
Line resistance	max. 50 Ohm per core
Ambient Temperature	-5°C to +50°C
Dimensions L × W × H	103 × 58 × 15 (mm)
Weight	34g

Cross-references	Page	Art.Nr.	Name	Type
	1	210205	Fire Detection Control Panel BC06-1/INT1	
	3	210209	Fire Detection Control Panel BC06-2/INT1	
	166	249096	MCP Coding Module MCM1-1	

210215 Serial Interface Module SIM06-1

The Serial Interface Module SIM06-1 extends the Fire Detection Control Panel Series BC06 by one galvanically isolated RS232C interface for the connection of a serial protocol printer.



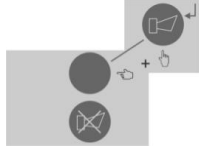
Specifications

Current consumption at 24V	typ. 15mA
Interface	RS232C, galvanically isolated
Data transfer lines	RxD, TxD
Baudrate	1200, 2400, 4800Baud
Type of connection	D-SUB connector, 9-pin
Ambient temperature	-5°C to +50°C
Dimensions L × W × H	88 × 35 × 17 (mm)
Weight	32g

Cross-references	Page	Art.Nr.	Name	Type
	1	210205	Fire Detection Control Panel BC06-1/INT1	
	3	210209	Fire Detection Control Panel BC06-2/INT1	

210212 Front Foil for Evacuation Circuit FFEV06-1

Self-adhesive plastic foil for labelling of three additional function keys in the display and operating field of the Fire Detection Control Panel Series BC06. These keys are used for the function 'Alarming device configured as Evacuation Circuit / NEN 2575'.

**Specifications**

Dimensions W × H

56 × 42 (mm)

Colour

light grey, RAL 7035

Cross-references	Page	Art.Nr.	Name	Type
	1	210205	Fire Detection Control Panel BC06-1/INT1	
	3	210209	Fire Detection Control Panel BC06-2/INT1	

2

Fire Detection Control Panels Series BC016

210102

Fire Detection Control Panel BC016-1/INT1

The Fire Detection Control Panel BC016-1/INT1 is a compact control panel for small and medium-size fire detection systems in conventional technology. Depending on the boards inserted you can connect fire detectors, fault detectors and condition detectors to a maximum of 16 detector lines in addressable conventional technology. Furthermore up to 16 actuations, 9 alarming devices and 3 transmitting devices can be connected. Thanks to its wide range of possible logic combinations for alarming and transmitting devices as well as for actuations, the control panel can realise even extensive and complex alarming and control tasks in the fire alarm technology. It complies with all requirements of the European Standards EN 54-2 and EN 54-4 including all options for the highest safety demands.



The control panel is installed in a powder-coated sheet steel wall-mount case. The basic version of the control panel includes 8 detector zones in addressable conventional technology, 2 freely parameterisable inputs and 3 relay outputs. The Fire Detection Control Panel Series BC016 can be extended to 16 detector zones by installing a Detector Zone Extension MGE8-1 and can be provided with a Fire Brigade Interface FWI016-1. The wall-mount case furthermore provides for the possible installation of up to 3 optional componentries (Relay Module RL58-1 or RL58-2, Siren Connection Module SZ58-3, etc.), as well as of a stand-by battery with $2 \times 12V/\text{max. } 22\text{Ah}$. The labels of display and operating elements as well as the displayed and printer texts are in English language.

The parameters of the control panel can be set up and transmitted to the control panel quickly and reliably by means of a PC and the Windows parameter setup software PARSOFT-1. Additionally, the parameter setup can be accomplished without any further tools by using the keypad of the integrated display and operating field of the control panel. The fire detection control panel comes with a default setup, which allows for a particularly easy commissioning.

Most important features

- ◆ RISC micro-processor technology
- ◆ Administration of up to 16 detector zones for manual call points, automatic fire detectors with or without alarm verification, technical messages and fault detectors with or without self-resetting property
- ◆ Administration of 3 transmitting devices, 9 alarming devices and 16 actuations
- ◆ INFO field with a 2 line by 16 character text display providing information about all current events
- ◆ Info button for additional information on the current events
- ◆ 16 double LEDs (left hand side: red, right hand side: yellow), automatically assigned to the parameterised zones and displaying the activation as well as the disablement or fault condition of the zones
- ◆ Designation labels allow for individual marking of every double LED
- ◆ The event memory stores the latest 200 events in chronological order
- ◆ Display of activation, fault, disablement, alarm delay, call fire brigade and confirmation of the transmitting device to the fire brigade
- ◆ Monitored output for the connection of external signalling devices with display of activation, fault or disablement
- ◆ 3 dry, freely parameterisable contact outputs; default setup includes two outputs preset for EN 54 requirements (summary alarm and summary fault)
- ◆ 16 open collector outputs which can be freely parameterised as transmitting devices, alarming devices, actuations or other output functions
- ◆ „and/or“-combinations for actuations, transmitting devices or alarming devices
- ◆ Collective reset of all current alarms via button “Panel reset”
- ◆ Hierarchized authorisation levels for operation and parameterisation, secured via numeric codes
- ◆ Alarm delay with dead-man’s handle controlled by internal timer which can be set separately for each day of the week

- ◆ Start and end date of Daylight Saving Time according to EU directive or freely parameterisable
- ◆ Non-resettable electronic event counter
- ◆ 1 mounting position for serial interface SIM216-1 (RS232C interface for the connection of a PC with Windows parameter setup software PARSOFT-1 or a serial protocol printer) or SIM016-3 (INFO-bus interface for the connection of fire brigade control units and intelligent remote tableaux)
- ◆ Stand-by battery max. $2 \times 12V/22Ah$ can be installed in the control panel's wall-mount case

Specifications

Mains voltage	230VAC +10/-15%, 50Hz
Connection power	60VA
Output voltage	typ. 27.6VDC
Output peak current	max. 1.8A
Connection of external devices	typ. 0.8A, site-specific
Current consumption at 24V	typ. 70mA (without optional componentries)
Line voltage	typ. 20.0V
Line current	typ. 3.8mA
End-of-line resistance	5.6kOhm
Line resistance	max. 50 Ohm per core
Ambient temperature	-5°C to +50°C
Dimensions W × H × D	380 × 480 × 83 (mm)
Colour	grey white, RAL 9002
Weight without batteries	approx. 5kg
Approval	VdS G205023

Cross-references	Page	Art.Nr.	Name	Type
	155	249028	Address Module/Conv./Apo NG60-1	
	119	249020	Address Module/Conv. NG58-1	
	50	223009	Control Zone Module SLM1-2	
	8	210110	Detector Zone Extension MGE8-1	
	9	210111	Fire Brigade Interface FWI016-1	
	66	227008	Protocol Printer/Dot-Matrix LX300	
	65	227003	Protocol Printer/Thermal DPU414-30B	
	63	222010	Relay Module 4-Fold/230VAC RL58-2	
	62	222004	Relay Module 8-Fold/60VDC RL58-1	
	9	210112	Serial Interface Module SIM016-3	
	52	214025	Serial Interface Module SIM216-1	
	61	223026	Siren Connection Module SZ58-3	
	287	310002	Stand-by Battery 12V/18Ah	

210100 Fire Detection Control Panel BC016-1/D1

Functions, specifications and cross-references correspond to the Fire Detection Control Panel BC016-1/INT1. The labels of display and operating elements as well as the displayed and printer texts are in German language.

Approval FT 14/439/04 (Austria), VdS G205023

210122 Fire and Evacuation Panel BC016-2/INT1

The design of the Fire and Evacuation Panel BC016-2/INT1 is identical with the Fire Detection Control Panel BC016-1/INT1, but includes additional 10 buttons in the display and operating field for the direct control (i.e. activation and deactivation) of a maximum of 8 evacuation circuits according to NEN 2575.



Specifications

Mains voltage	230VAC +10/-15%, 50Hz
Connection power	60VA
Output voltage	typ. 27.6VDC
Output peak current	max. 1.8A
Connection of external devices	typ. 0.8A, site-specific
Current consumption at 24V	typ. 70mA (without optional componentries)
Line voltage	typ. 20.0V
Line current	typ. 3.8mA
End-of-line resistance	5.6kOhm
Line resistance	max. 50 Ohm per core
Ambient temperature	-5°C to +50°C
Dimensions W × H × D	380 × 480 × 83 (mm)
Colour	grey white, RAL 9002
Weight without batteries	approx. 5kg
Approval	VdS G205023

Cross-references	Page	Art.Nr.	Name	Type
	155	249028	Address Module/Conv./Apo NG60-1	
	119	249020	Address Module/Conv. NG58-1	
	50	223009	Control Zone Module SLM1-2	
	8	210110	Detector Zone Extension MGE8-1	
	9	210111	Fire Brigade Interface FWI016-1	
	66	227008	Protocol Printer/Dot-Matrix LX300	
	65	227003	Protocol Printer/Thermal DPU414-30B	
	63	222010	Relay Module 4-Fold/230VAC RL58-2	
	62	222004	Relay Module 8-Fold/60VDC RL58-1	
	9	210112	Serial Interface Module SIM016-3	
	52	214025	Serial Interface Module SIM216-1	
	61	223026	Siren Connection Module SZ58-3	
	287	310002	Stand-by Battery 12V/18Ah	

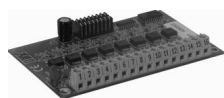
210120 Fire and Evacuation Panel BC016-2/D1

Functions, specifications and cross-references correspond to the Fire Detection Control Panel BC016-2/INT1. The labels of display and operating elements as well as the displayed and printer texts are in German language.

Approval FT 14/439/04 (Austria), VdS G205023

210110 Detector Zone Extension MGE8-1

The Detector Zone Extension MGE8-1 is used to extend a Fire Detection Control Panel Series BC016 by 8 detector zones in addressable conventional technology.



Features

- ◆ 8 detector lines in addressable conventional technology, that can be individually configured as detector zone for manual call points, automatic fire detectors with of without alarm verification, technical messages and fault detectors with or without self-resetting property
- ◆ Individual detector identification for up to 64 addresses per detector line in conjunction with optional address modules
- ◆ Detector lines monitored for wire breakage, short circuit and earth fault
- ◆ Freely parameterisable allocation of the detector lines for activating transmitting devices, actuations and alarming devices

Specifications

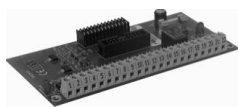
Current consumption at 24V	typ. 32mA (8 zones terminated, without detectors)
Line voltage	typ. 20.0V
Line current	typ. 3.8mA
End-of-line resistance	5.6kOhm
Line resistance	max. 50 Ohm per core
Ambient temperature	-5°C to +50°C
Dimensions L × W × H	100 × 65 × 15 (mm)

Weight 80g

Cross-references	Page	Art.Nr.	Name	Type
	155	249028	Address Module/Conv./Apo NG60-1	
	119	249020	Address Module/Conv. NG58-1	
	7	210122	Fire and Evacuation Panel BC016-2/INT1	
	6	210102	Fire Detection Control Panel BC016-1/INT1	

210111 Fire Brigade Interface FWI016-1

The Fire Brigade Interface FWI016-1 allows for the connection of two independent transmitting devices for direct interconnection to a designated alarm respondent (e.g., the fire brigade) as well as the connection of a country specific fire brigade control unit to Fire Detection Control Panels Series BC016.



Features

- ◆ 1 relay output with dry changeover contact
- ◆ 1 line-monitored output with selectable surveillance current
- ◆ 8 inputs and 7 outputs, freely parameterisable, for the connection of a country specific fire brigade control unit and other devices
- ◆ All inputs and outputs are available on screw terminals or flat cable connector

Specifications

Current consumption at 24V	typ. 4mA
Switching power per contact	60V/1A/30W
Contact life	3×10^5
Ambient temperature	-5°C to +50°C
Dimensions L × W × H	130 × 65 × 15 (mm)
Weight	70g

Cross-references	Page	Art.Nr.	Name	Type
	7	210122	Fire and Evacuation Panel BC016-2/INT1	
	6	210102	Fire Detection Control Panel BC016-1/INT1	

210112 Serial Interface Module SIM016-3

The Serial Interface Module SIM016-3 is used to extend a Fire Detection Control Panel Series BC016 with an INFO-bus interface for the connection of fire brigade control units and intelligent remote indication units with serial data transmission.



Specifications

Current consumption at 24V	typ. 22mA
Interface	20mA current loop
Connection type	Screw terminals
Ambient temperature	-5°C to +50°C
Dimensions L × W × H	70 × 45 × 20 (mm)
Weight	50g

Cross-references	Page	Art.Nr.	Name	Type
	7	210122	Fire and Evacuation Panel BC016-2/INT1	
	6	210102	Fire Detection Control Panel BC016-1/INT1	

3 Fire Detection Control Panels Series BC216

2149999 Available Variants Series BC216

The term "Series BC216" combines both stand-alone control panels for small and medium-size fire detection systems and fire detection control panels that consist of a variety of networked sectional control panels for medium to very large fire detection systems.

The Fire Detection Control Panels BC216-1 and BC216-1CE are designed as compact stand-alone control panels for use in small and medium-size fire detection systems. Due to their modular structure and their free-to-set parameters they can be easily adapted to various requirements and can, therefore, be used in a wide range of applications. The control panels set new standards in operating comfort, functional variety, as well as security in the fire alarm technology, which benefit both the user and the installer of a fire detection system.

The Fire Detection Control Panel BC216-1S is a modular compact panel for small fire detection systems with a single ADM loop. It constitutes an already pre-assembled unit that contains all basic components which are required for the operation of a 1 loop fire detection control panel.

In a Fire Detection Control Panel BCnet216 individual decentrally located BCnet sectional control panels are combined in the Global Security System network GSSnet to form a virtual control panel for medium-size to very large or far-flung fire detection systems. The sectional control panels consist basically of the same components as the stand-alone control panels and consequently share the same clear modular design as well as the individual parameter setup. This makes the units clear and easy-to-handle and the required professional knowledge for planning and commissioning, thanks to the use of consistent components, remains the same for every system size. By the use of network technology, the control panel sets new standards for security in fire alarm technology and, at the same time, reduces costs due to most simple cabling work.

The following table provides you with an overview of the most important characteristics of the individual control panels, sectional control panels or control panel modules, respectively, of Series BC216:

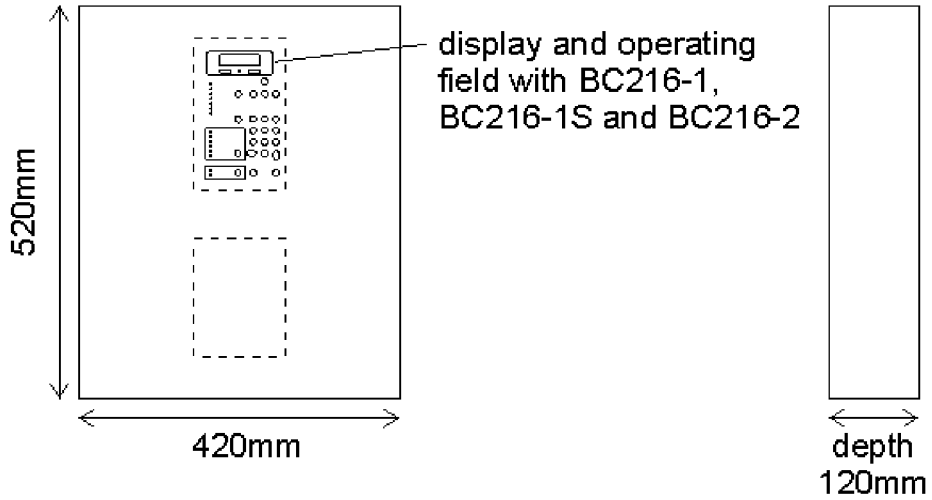
Type:	Display and operating field available	Sectional Control Panel in the GSSnet	BCnet Sectional Control Panel Extension applicable	LED-display field applicable
BC216-1	X			X
BC216-1S	X			X
BC216-2	X	X	X	X
BC216-3		X	X	
BC216-1CE	X			X
BC216-1CE + NIF5-1M	X	X		X
BC216-3CE		X		
BC216-2EPS	X	X		X
BCM216-3EPS		X		
BCM216-3E		X		
BCM216-3ELG		X		

The Global Security System network GSSnet allows for the communication of overall 127 GSSnet members (i.e. BCnet sectional control panels, control panel modules, etc.), which together provide the possibility to connect:

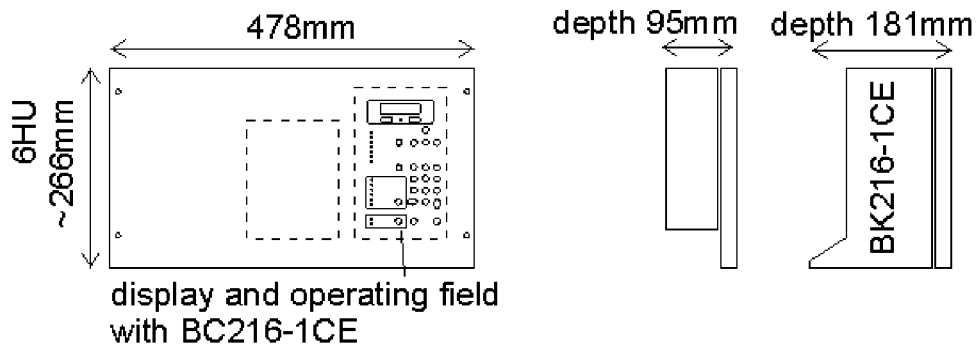
- ◆ 254 ADM loops using System Sensor/200 or Apollo/Discovery protocol or 2032 detector zones in addressable conventional technology
- ◆ 9700 actuations (e.g., fire controls or extinguishing system controls)
- ◆ 99 transmitting devices (e.g., to the fire brigade)
- ◆ 999 alarming devices (e.g., zones of acoustic or optical signalling devices)

The following figure shows the available variants of panel housings.

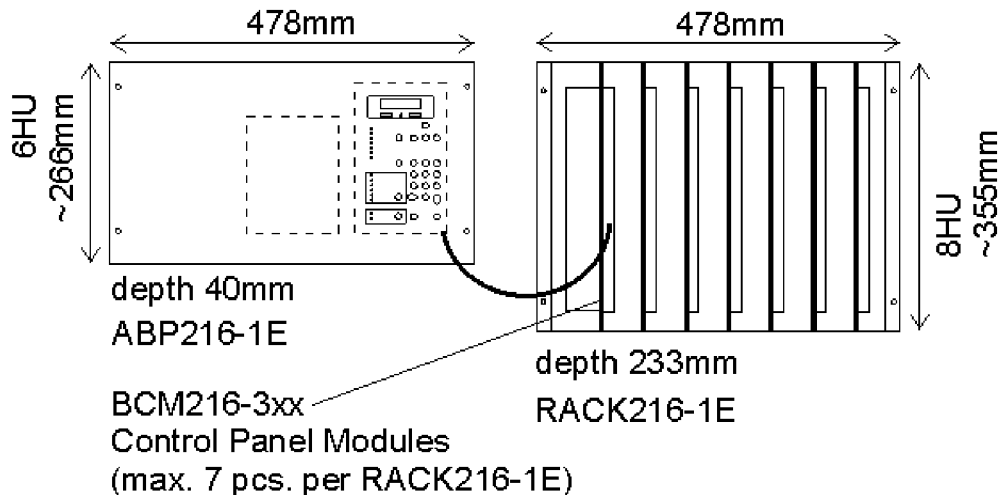
BC216-x (compact wall-mount design)



BC216-xCE (compact 19" design)



BC216-xE (19" slide-in unit design)



214008 Fire Detection Control Panel BC216-1/INT1

The Fire Detection Control Panel BC216-1/INT1 is a modularly designed compact control panel for small and medium size fire detection system. Depending on the boards inserted you can connect fire detectors, fault detectors and condition detectors as well as actuation elements and alarming devices to a maximum of 2 ADM loops, or to a maximum of 16 detector lines in addressable conventional technology, or to a combination of both.



Thanks to its wide range of possible logic combinations for alarming and transmitting devices as well as for actuations, the control panel can realise even extensive and complex alarming and control tasks in the fire alarm technology. It complies with all requirements of the European Standards EN 54-2 and EN 54-4 including all options for the highest safety demands.

If required, the Fire Detection Control Panel BC216-1 can be expanded to become an Extinguishing Control Panel LC216-1. This panel can control and monitor up to 8 flooding zones. The extensive functions and features are summarised in the description of the Extinguishing Control Panel Series LC216, No. 2189990.

The control panel is installed in a wall-mount cabinet made of powder coated sheet steel and prepared for 2 function modules (Conventional Detector Interface GIF8-1 or Loop Interface LIF64-1), a Fire Brigade Interface FWI2-1, a Fire Brigade Interface Additional Board FWZ2-1, an LED Display Field LAB48-1, a Serial Interface Module SIM216-1 and additional optional componentries as well as a stand-by battery with $2 \times 12V/\max. 22Ah$. The labels of the display and operating elements as well as the displayed and printer texts are in English language.

The parameters of the control panel can be set up and transmitted to the control panel quickly and reliably by means of a PC and the Windows Parameter Setup Software PARSOFT-1. Additionally, the parameter setup can be realised also without any further tools using the keypad of the integrated display and operating field of the control panel or by means of a commercially available PC keyboard.

The parameters of the control panel can be set up and transmitted to the control panel quickly and reliably by means of a PC and the Windows Parameter Setup Software PARSOFT-1. Additionally, the parameter setup can be realised also without any further tools using the keypad of the integrated display and operating field of the control panel or by means of a commercially available PC keyboard.

Most important features

- ◆ Micro-processor technology with diverse redundant processing logic
- ◆ Administration of up to 144 detector zones for manual call points, automatic fire detectors with or without alarm verification, technical messages and fault detectors with or without self-resetting property
- ◆ Administration of 10 transmitting devices, 99 alarming devices, 128 actuations and 199 sectors
- ◆ Easy control panel operation thanks to freely parameterisable sectors
- ◆ INFO field with a 4 line by 20 character backlit text display providing information about all current events in English
- ◆ Info button for additional information on the current events
- ◆ Event memory with quick-search filter displays the latest 500 events in chronological order
- ◆ Display of activation, fault, disablement, alarm delay, call fire brigade and confirmation of the transmitting device to the fire brigade
- ◆ Monitored output for the connection of external signalling devices with display of activation, fault or disablement
- ◆ Dry contact outputs for summary alarm and summary fault
- ◆ 16 open collector outputs which can be freely parameterised as transmitting devices, alarming devices, actuations or other output functions
- ◆ „and/or“-combinations for the activation of actuations, transmitting devices or alarming devices, depending on messages from detector zones or single detectors, respectively
- ◆ Collective reset of all current alarms via button “Panel reset”
- ◆ Hierarchized authorisation levels for operation and parameterisation, secured via numeric codes
- ◆ Alarm delay with dead-man’s handle controlled by internal timer which can be set separately for each day of the week
- ◆ Start and end date of Daylight Saving Time according to EU directive or freely parameterisable

- ◆ One-man test condition
- ◆ Non-resetable electronic alarm counter
- ◆ Two integrated serial interfaces
- ◆ Integrated INFO-bus for the connection of fire brigade control units and intelligent remote indication units
- ◆ Connection of a serial protocol printer via an optional data interface
- ◆ Control panel recognises all control panel components and loop elements by means of auto-setup during first commissioning
- ◆ Connection of detectors via unshielded 2-wire cabling
- ◆ Stand-by battery 2 × 12V/22Ah can be installed in the control panel's housing

Additional features and functions when operating in analogue ADM loop technology (provided that Loop Interfaces LIF64-1 are used in the control panel):

- ◆ **ADM loop** supports 198 elements (99 detectors and 99 modules) using System Sensor/200 protocol or 126 elements (detectors and/or modules) using Apollo/Discovery protocol. Each ADM loop can be split in up to 128 detector zones, the control panel can support a total of 144 detector zones.
- ◆ **ADM loop wiring** can be accomplished as ring, branch or any given combination of sectional rings and branches using two-core unshielded cables.
- ◆ **ADM communication** is achieved by means of bi-directional data exchange between the fire detection control panel and every single element on the ADM loop.
- ◆ **ADM failure strategy** secures full functionality of all elements connected to the ADM loop in case of wire breakage. At short circuit, all elements not affected by the short circuit, thanks to the installed isolator modules, are fully operable.
- ◆ **ADM alarm threshold tracing** for every single smoke detector on the ADM loop according to its individual contamination. The sensitivity of every smoke detector is thus held constant over a very long period of time and deceptive alarms are avoided.
- ◆ **ADM alarm logic** analyses the measured values above alarm threshold (comparison of fire patterns) to increase immunity against deceptive alarms.
- ◆ **ADM multi alarm logic** increases the effect of the standard alarm logic by making use of the broad variety of freely parameterisable 2-detector or multi-detector interdependencies.
- ◆ **ADM individual detector identification** by assigning each physical address of an element on the ADM loop a logical address (that consists in a zone number and element number).
- ◆ 2-line **ADM detector text** can be assigned to every logical address on the ADM loop.
- ◆ **Individual ADM detector disablement** for every single element on the ADM loop or for predefined groups of elements.
- ◆ **ADM maintenance prognosis** by means of processor-aided interpolation of data concerning the trend of contamination for every single smoke detector on the ADM loop. This way it is possible to predict the next maintenance date with a high degree of probability which in turn results in major cost savings in maintenance during the lifetime of the fire detection system.
- ◆ **ADM detector test** checks the alarming capability of every ADM detector from the fire detection control panel.
- ◆ **ADM actuations** on the ADM loop by means of actuation elements as well as alarm sirens, which are freely parameterisable and are controlled individually by the control panel.
- ◆ **ADM address setting** is carried through separately at each loop element.
- ◆ **ADM flexibility** provides for the possibility to connect conventional detectors and special detectors via a Conventional Detector Module.

Specifications

Mains voltage	230VAC +10/-15%, 50Hz
Connection power	60VA
Output voltage	typ. 28VDC
Output peak current	max. 1.8A
Connection of external devices	typ. 0.8A, site-specific
Current consumption at 24V	typ. 90mA (without optional componentries)
Ambient temperature	-5°C to +50°C
Dimensions W × H × D	420 × 520 × 120 (mm)
Colour	grey white, RAL 9002
Weight without batteries	approx. 6kg
Approval	VdS G201017

Cross-references	Page	Art.Nr.	Name	Type
	40	214003	Auxiliary Case for BC216 GEH216-4	
	50	223009	Control Zone Module SLM1-2	
	35	214020	Conventional Detector Interface GIF8-1	
	45	214601	Cover IP54 for BC216 GEH-IP54-BC-1/D1	
	58	218023	ESPA 4.4.4 Interface License ESPA-SS	
	47	218024	Extinguishing Control/8-Area License LC216-8LB	
	37	214023	Fire Brigade Interface Additional Board FWZ2-1	
	36	214022	Fire Brigade Interface FWI2-1	
	37	214024	LED Display Field LAB48-1	
	38	214030	LED Display Field LAB48-2	
	38	214032	LED Display Field LAB48-3	
	39	214036	LED Display Field LAB48-4	
	35	214021	Loop Interface LIF64-1	
	66	227008	Protocol Printer/Dot-Matrix LX300	
	65	227003	Protocol Printer/Thermal DPU414-30B	
	63	222010	Relay Module 4-Fold/230VAC RL58-2	
	62	222004	Relay Module 8-Fold/60VDC RL58-1	
	52	214025	Serial Interface Module SIM216-1	
	61	223026	Siren Connection Module SZ58-3	
	287	310002	Stand-by Battery 12V/18Ah	
	58	218022	ZLT Interface License ZLT-SS	

214000 Fire Detection Control Panel BC216-1/A1

The Fire Detection Control Panel BC216-1/A1 is a modularly designed compact control panel in the version for Austria, for small and medium size fire detection systems. Functions, specifications and cross-references correspond to the Fire Detection Control Panel BC216-1/INT1. The labels of display and operating elements as well as the displayed and printer texts are in German language.

Approval FT 14/147/3/99 (Austria), VdS G201017

214610 Fire Detection Control Panel BC216-1/D1

The Fire Detection Control Panel BC216-1/D1 is a modularly designed compact control panel in the version for Germany, for small and medium size fire detection systems. Functions, specifications and cross-references correspond to the Fire Detection Control Panel BC216-1/INT1. The labels of display and operating elements as well as the displayed and printer texts are in German language.

Approval VdS G201017

214006 Fire Detection Control Panel BC216-1/B1

Functions, specifications and cross-references correspond to the Fire Detection Control Panel BC216-1/INT1. The labels of display and operating elements as well as the displayed and printer texts are in French language.

Approval ANPI BFS/DE/1096 - 2003.03.20

214015 Fire Detection Control Panel BC216-1/CZ1

Functions, specifications and cross-references correspond to the Fire Detection Control Panel BC216-1/INT1. The labels of display and operating elements as well as the displayed and printer texts are in Czech language.

Using the optional interface (Serial Interface Module SIM216-1), the connection to the Radom transmitting system can be realised.

Approval EZU 7.105034-00/00

- 214007 Fire Detection Control Panel BC216-1/H1**
 Functions, specifications and cross-references correspond to the Fire Detection Control Panel BC216-1/INT1. The labels of display and operating elements as well as the displayed and printer texts are in Hungarian language.
 Approval EMILABS 85/2000
- 214009 Fire Detection Control Panel BC216-1/NL1**
 Functions, specifications and cross-references correspond to the Fire Detection Control Panel BC216-1/INT1. The labels of display and operating elements as well as the displayed and printer texts are in Dutch language.
 Approval VdS G201017
- 214017 Fire Detection Control Panel BC216-1/SK1**
 Functions, specifications and cross-references correspond to the Fire Detection Control Panel BC216-1/INT1. The labels of display and operating elements as well as the displayed and printer texts are in Slovak language.
 Approval EVPÜ 03323/101/1/2002
- 214049 Fire Detection Control Panel BC216-1/HR1**
 Functions, specifications and cross-references correspond to the Fire Detection Control Panel BC216-1/INT1. The labels of display and operating elements as well as the displayed and printer texts are in Croatian language.
- 214080 Fire Detection Control Panel BC216-1/RUS1**
 Functions, specifications and cross-references correspond to the Fire Detection Control Panel BC216-1/INT1. The labels of display and operating elements as well as the displayed and printer texts are in Russian language with cyrillic characters.
 Approval B. 01832
- 214084 Fire Detection Control Panel BC216-1/SLO1**
 Functions, specifications and cross-references correspond to the Fire Detection Control Panel BC216-1/INT1. The labels of display and operating elements as well as the displayed and printer texts are in Slovenian language.
 Approval 02012-C-709P3
- 214086 Fire Detection Control Panel BC216-1/I1**
 Functions, specifications and cross-references correspond to the Fire Detection Control Panel BC216-1/INT1. The labels of display and operating elements as well as the displayed and printer texts are in Italian language.
 Approval VdS G201017
- 214088 Fire Detection Control Panel BC216-1/PL1**
 Functions, specifications and cross-references correspond to the Fire Detection Control Panel BC216-1/INT1. The labels of display and operating elements as well as the displayed and printer texts are in Polish language.
 Approval CNBOP 2238/2006

214308 Fire Detection Control Panel BC216-1S/INT1



The Fire Detection Control Panel BC216-1S/INT1 is a modularly designed compact control panel for small fire detection systems with a single ADM loop (ring-bus technology). It is an already completely mounted unit, which includes all basic components that are needed for the operation of a 1-loop fire detection control panel. Fire detectors, fault detectors and condition detectors as well as control elements and alarming devices can be connected to the ADM loop. Even extensive and complex alarming and control tasks can be accomplished with the control panel due to numerous possible combinations to alarming devices and transmitting devices and combinations for actuations. The control panel complies with the European standards EN 54-2 and EN 54-4 in all points including all options for highest safety demands.

The control panel is integrated in a wall-mount cabinet made of powder coated steel sheet and is equipped with a Loop Interface LIF64-1 by default. In addition, the control panel is prepared for accommodation of one Fire Brigade Interface FWI2-1, one Fire Brigade Interface Additional Board FWZ2-1, one LED Display Field LAB48, a Serial Interface Module SIM216-1 and further optional componentries as well as of stand-by batteries 2 × 12V/max. 22Ah. The mounting position for function module 2 is non-functional. The labelling of operating and display elements, display texts and text printouts come in English language.

The configuration parameters of the control panel can be quickly and reliably created on a PC by means of the Windows parameter setup software PARSOFT-1 and transferred to the control panel. In addition, parameter data can be directly entered either on the control panel via the keyboard of the integrated display and operating field, or via a standard PC keyboard.

Essential features

- ◆ Micro-processor technology with diverse redundant processing logic
- ◆ Administration of up to 128 detector zones for manual call points, automatic fire detectors with or without alarm verification, technical messages and fault detectors with or without self-resetting property
- ◆ Administration of 10 transmitting devices, 99 alarming devices, 128 actuations and 199 sectors
- ◆ Easy operation of the control panel by freely parameterisable sectors
- ◆ INFO-field with 4 line by 20 character backlit text display for information on all current events
- ◆ Info-button for additional information on current events
- ◆ Event memory displays last 500 events in chronological order with setable filters
- ◆ LED indicators for activation, fault, disablement, alarm delay operation, call fire brigade and confirmation for the fire brigade transmitting device
- ◆ Monitored output for activation of external signalling devices with display of activation, fault or disablement
- ◆ One dry contact each for summary alarm and summary fault
- ◆ 16 open-collector outputs parameterisable as transmission and alarming devices, actuations or other output types
- ◆ "And/or"-combinations for activation of actuations, transmitting devices or alarming devices, in dependence from messages of detector zones or individual detectors
- ◆ Button "Panel reset" for common reset of all current events
- ◆ 3 authorisation levels for operation and parameterisation, secured by numeric codes
- ◆ Alarm delay with dead-man's handle, programmable for every day of the week by means of the internal timer
- ◆ Automatic shifting between winter- and summertime either according to EU directive or freely setable
- ◆ One-man-maintenance function
- ◆ Non-resetable electronic event counter
- ◆ Two integrated serial interfaces
- ◆ Integrated INFO-bus for the connection of a fire brigade control unit and intelligent remote indication unit
- ◆ Connection of a serial protocol printer via an optional data interface
- ◆ At first commissioning, the control panel recognises all componentries and loop elements by means of AUTO-setup

- ◆ Use of unshielded 2-wire detector cabling
- ◆ Control panel case provides space for accommodating $2 \times 12\text{V}/22\text{Ah}$ stand-by batteries

Additional features and functions in analogue ADM technology:

- ◆ **ADM loop** serves 198 elements (99 detectors and 99 modules) with protocol System Sensor/200 or 126 elements (detectors and/or modules) with Apollo/Discovery protocol. An ADM loop and can be divided in up to 128 detector zones.
- ◆ **ADM loop wiring** can be installed in form of a ring, branch or an arbitrary combination of sectional rings and branches.
- ◆ **ADM communication** by bi-directional data exchange between the fire detection control panel and every single element on the ADM loop.
- ◆ **ADM failure strategy** guarantees full function of all elements connected to the loop in case of wire breakage. At short circuit, the installed isolator modules protect devices not affected by the short circuit from failure.
- ◆ **ADM drift compensation** according to the degree of contamination of individual smoke detectors on the ADM loop. Therefore, smoke detectors maintain the same sensitivity over long periods of time and deceptive alarms are avoided.
- ◆ **ADM alarm logic** analyses detector data above the alarm threshold to increase immunity against deceptive alarms (comparison of fire patterns)
- ◆ **ADM multi alarm logic** increases the effect of the standard alarm logic through interdependencies of two or more detectors, freely parameterisable in many variants.
- ◆ **ADM individual detector identification** by assignment of a software address to each physical address of a loop element
- ◆ **ADM detector text** with a two-line site-specific text that can be easily assigned to every software address.
- ◆ **ADM individual detector disablement** for every single element on the ADM loop or for pre-defined groups of elements.
- ◆ **ADM maintenance prognosis** by processor based data interpolations of contamination tendencies of individual smoke detectors on the ADM loop. This allows the prediction of a maintenance prognosis. Thereby, enormous savings in service costs over the product life time are possible.
- ◆ **ADM detector test** - each ADM detector can be checked for alarming capability from the control panel.
- ◆ **ADM actuations** on the ADM loop by freely parameterisable control elements and alarm sirens that can be individually activated by the control panel
- ◆ **ADM address adjusting** to be carried out individually on each loop element
- ◆ **ADM flexibility** enables the connection of standard conventional detectors and special detectors to the ADM loop via a conventional zone monitor module.

Specifications

Mains voltage	230VAC +10/-15%, 50Hz
Connection power	60VA
Output voltage	typ. 28VDC
Output peak current	max. 1.8A
Connection of external devices	typ. 0.8A, system-specific
Current consumption at 24V	typ. 115mA (incl. LIF64-1, without detectors/modules)
Ambient temperature	-5°C to +50°C
Dimensions W × H × D	420 × 520 × 120 (mm)
Colour	grey white, RAL 9002
Weight without batteries	approx. 6kg
Approval	VdS G201017

Cross-references	Page	Art.Nr.	Name	Type
	40	214003	Auxiliary Case for BC216 GEH216-4	
	50	223009	Control Zone Module SLM1-2	
	45	214601	Cover IP54 for BC216 GEH-IP54-BC-1/D1	
	37	214023	Fire Brigade Interface Additional Board FWZ2-1	
	36	214022	Fire Brigade Interface FWI2-1	
	37	214024	LED Display Field LAB48-1	
	38	214030	LED Display Field LAB48-2	
	38	214032	LED Display Field LAB48-3	
	39	214036	LED Display Field LAB48-4	
	295	218008	Parameter Setup Software PARSOFT-2	
	66	227008	Protocol Printer/Dot-Matrix LX300	
	65	227003	Protocol Printer/Thermal DPU414-30B	
	63	222010	Relay Module 4-Fold/230VAC RL58-2	

62	222004	Relay Module 8-Fold/60VDC RL58-1
52	214025	Serial Interface Module SIM216-1
61	223026	Siren Connection Module SZ58-3
287	310002	Stand-by Battery 12V/18Ah

214300 Fire Detection Control Panel BC216-1S/A1

The Fire Detection Control Panel BC216-1S/A1 is a modularly designed compact control panel in the version for Austria, for small size fire detection systems with a single ADM loop. Functions, specifications and cross-references correspond to the Fire Detection Control Panel BC216-1S/INT1. The labels of display and operating elements as well as the displayed and printer texts are in German language.

Approval FT 14/147/3/99 (Austria), VdS G201017

214304 Fire Detection Control Panel BC216-1S/D1

The Fire Detection Control Panel BC216-1S/D1 is a modularly designed compact control panel in the version for Germany, for small size fire detection systems with a single ADM loop. Functions, specifications and cross-references correspond to the Fire Detection Control Panel BC216-1S/INT1. The labels of display and operating elements as well as the displayed and printer texts are in German language.

Approval VdS G201017

214306 Fire Detection Control Panel BC216-1S/B1

Functions, specifications and cross-references correspond to the Fire Detection Control Panel BC216-1S/INT1. The labels of display and operating elements as well as the displayed and printer texts are in French language.

Approval ANPI BFS/DE/1096 - 2003.03.20

214315 Fire Detection Control Panel BC216-1S/CZ1

Functions, specifications and cross-references correspond to the Fire Detection Control Panel BC216-1S/INT1. The labels of display and operating elements as well as the displayed and printer texts are in Czech language.

Approval EZU 7.105034-00/00

214307 Fire Detection Control Panel BC216-1S/H1

Functions, specifications and cross-references correspond to the Fire Detection Control Panel BC216-1S/INT1. The labels of display and operating elements as well as the displayed and printer texts are in Hungarian language.

Approval EMILABS 85/2000

214309 Fire Detection Control Panel BC216-1S/NL1

Functions, specifications and cross-references correspond to the Fire Detection Control Panel BC216-1S/INT1. The labels of display and operating elements as well as the displayed and printer texts are in Dutch language.

Approval VdS G201017

214317 Fire Detection Control Panel BC216-1S/SK1

Functions, specifications and cross-references correspond to the Fire Detection Control Panel BC216-1S/INT1. The labels of display and operating elements as well as the displayed and printer texts are in Slovak language.

Approval EVPÜ 03323/101/1/2002

214349 Fire Detection Control Panel BC216-1S/HR1

Functions, specifications and cross-references correspond to the Fire Detection Control Panel BC216-1S/INT1. The labels of display and operating elements as well as the displayed and printer texts are in Croatian language.

214384 Fire Detection Control Panel BC216-1S/SLO1

Functions, specifications and cross-references correspond to the Fire Detection Control Panel BC216-1S/INT1. The labels of display and operating elements as well as the displayed and printer texts are in Slovenian language.

Approval 02012-C-709P3

214388 Fire Detection Control Panel BC216-1S/PL1

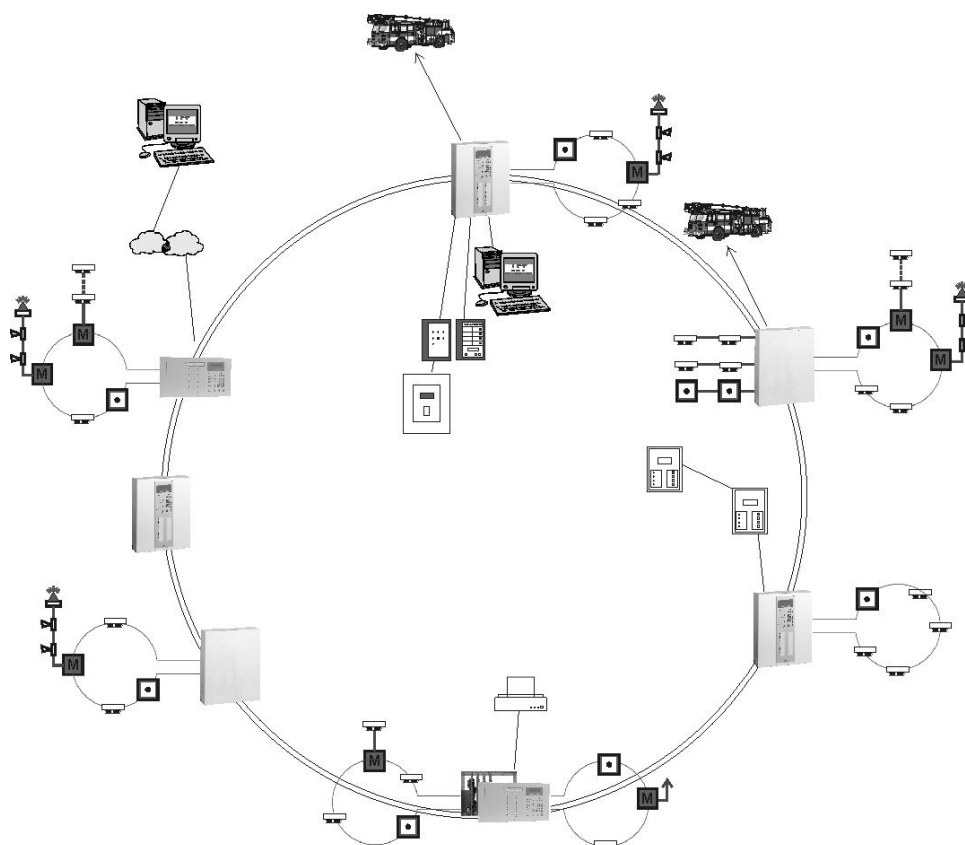
Functions, specifications and cross-references correspond to the Fire Detection Control Panel BC216-1S/INT1. The labels of display and operating elements as well as the displayed and printer texts are in Polish language.

Approval CNBOP 2238/2006

2199998 Fire Detection Control Panel BCnet216, Description

The Fire Detection Control Panel BCnet216 is a decentrally located control panel for medium-size to very large or far-flung fire detection systems and consists of individual sectional control panels. The sectional control panels are normally installed on the spot – adapted to the object and distributed across the building – they can, however, be combined at one or several locations. All sectional control panels are connected via a redundant high-security network (the Global Security System network GSSnet) and conjointly form the decentralised Fire Detection Control Panel BCnet216. The decentralised structure not only reduces the cabling work for connecting fire detectors, it, above all, significantly improves the failure safety of the entire system compared to conventionally designed fire detection control panels. The control panel can easily be adapted to any required system size and provides literally unlimited possibilities also for future extensions.

Thanks to its wide range of possible logic combinations for alarming and transmitting devices as well as for actuations, the control panel can realise even extensive and complex alarming and control tasks in the fire alarm technology. It complies with all requirements of the European Standards EN 54-2 and EN 54-4 including all options for the highest safety demands.



The Global Security System network GSSnet allows for the communication of overall 127 GSSnet members, which together provide the possibility to connect:

- ◆ 254 ADM loops using System Sensor/200 or Apollo/Discovery protocol or detector zones in addressable conventional technology
- ◆ 2032 actuations (e.g., fire controls or extinguishing system controls)
- ◆ 9700 transmitting devices (e.g., to the fire brigade)
- ◆ 99 alarming devices (e.g., zones of acoustic or optical signalling devices)

The applied network technology warrants top failure safety in case of a fault of the network line and exceeds the redundancy requirements of the European Standard EN 54-2.

The following designs of control panels can be used as sectional control panels within a Network Fire Detection Control Panel BCnet216:

- ◆ BCnet Sectional Control Panel in standard wall-mount cabinet BC216-2 (with display and operating field) or BC216-3 (without display and operating field), each of which can be expanded with a BCnet Sectional Control Panel/Extension BCE216-3LG,
- ◆ BCnet Sectional Control Panel in compact 19" slide-in technology BC216-1CE with additionally installed Network Interface Module NIF5-1M (with display and operating field) or BC216-3CE (without display and operating field), and
- ◆ BCnet Sectional Control Panel BC216-2EPS (consisting of a 19" Control Panel Rack RACK216-1E, a Fire Detection Control Panel Module with power unit BCM216-3EPS and a Display and Operating Front Panel ABP216-1E), which can be expanded with Fire Detection Control Panel Modules BCM216-3EPS, BCM216-3E and BCM216-3ELG).

The administration of the entire fire detection control panel is assigned to a BCnet sectional control panel with display and operating field of your choice, which is parameterised as main operating unit and allows for the full operation of all BCnet sectional control panels in the networked control panel. This main operating unit also takes care of the setup of site-specific parameters for the entire control panel – easily and comfortably accomplished by means of PC and Windows Parameter Setup Software PARSOFT-2.

In addition to the main operating unit, additional operating units as well as remote display and operating units can be integrated into GSSnet.

Every BCnet sectional control panel as well as the Fire Detection Control Panel Modules BCM216-3EPS and BC216-3E is prepared for 2 function modules (Conventional Detector Module GIF8-1 or Loop Interface LIF64-1), one Fire Brigade Interface FWI2-1, one Fire Brigade Interface Additional Board FWZ2-1, a Serial Interface Module SIM216-1 as well as additional optional componentries. You can thus connect fire detectors, fault detectors and condition detectors as well as actuation elements and alarming devices to a maximum of 2 ADM loops, or to a maximum of 16 detector lines in addressable conventional technology, or to a combination of the both. Sectional control panel with display and operating field can be equipped with LED Display Fields.

If required, the Fire Detection Control Panel BCnet216 can be expanded to become an Extinguishing Control Panel LCnet216. Each sectional control panel can control and monitor up to 8 flooding zones, the entire panel network controls a maximum of 127 flooding zones. The extensive functions and features are summarised in the description of the Extinguishing Control Panel Series LC216, No. 2189990.

Most important features of each BCnet sectional control panel or fire detection control panel modules, respectively

- ◆ Micro-processor technology with diverse redundant processing logic
- ◆ Administration of up to 144 detector zones for manual call points, automatic fire detectors with or without alarm verification, technical messages and fault detectors with or without self-resetting property (3)
- ◆ Administration of 10 transmitting devices, 99 alarming devices, 128 actuations and 199 sectors
- ◆ Easy control panel operation thanks to freely parameterisable sectors
- ◆ INFO field with a 4 line by 20 character backlit text display providing information about all current events (1), (2), (3)
- ◆ Info button for additional information on the current events (1), (2), (3)
- ◆ Event memory with quick-search filter displays the latest 500 events in chronological order
- ◆ Display of activation, fault, disablement, delay operation, call fire brigade and confirmation for the transmitting device to the fire brigade (1), (2), (3)
- ◆ Monitored output for the connection of external signalling devices with display of activation, fault or disablement (3)
- ◆ Dry contact outputs for summary alarm and summary fault
- ◆ 16 open collector outputs which can be freely parameterised as transmitting devices, alarming devices, actuations or other output functions (3)
- ◆ „and/or“-combinations for the activation of actuations, transmitting devices or alarming devices, depending on messages from detector zones or single detectors, respectively
- ◆ Collective reset of all current alarms via button “Panel reset” (1), (2), (3)

- ◆ Hierarchized authorisation levels for operation and parameterisation, secured via numeric codes (1), (2), (3)
- ◆ Alarm delay with dead-man's handle controlled by internal timer which can be set up separately for each day of the week
- ◆ Start and end date of Daylight Saving Time according to EU directive or freely parameterisable
- ◆ One-man maintenance function (1), (2), (3)
- ◆ Non-resettable electronic event counter
- ◆ One freely-usable serial interface (3)
- ◆ Integrated INFO-bus for the connection of a fire brigade control unit and an intelligent remote indication unit (3)
- ◆ Connection of a serial protocol printer via optional data interface (3)
- ◆ Control panel recognises all control panel components and loop elements by means of auto-setup during first commissioning
- ◆ Connection of detectors via unshielded 2-wire cabling
- ◆ Stand-by battery $2 \times 12V/22Ah$ can be integrated in control panel housing (only with BC216-2, BC216-3, BC216-1CE, BC216-3CE)

(1) Sectional Control Panels BC216-3 and BC216-3CE have no display and operating field installed, these sectional control panels are operated by and the events are displayed on an operatable sectional control panel (e.g., the main operating unit)

(2) Fire Detection Control Panel Modules have no display and operating field installed, these sectional control panels are operated by and the events are displayed on an operatable sectional control panel (e.g., the main operating unit) or an optionally connected Display and Operating Front Panel ABP216-1E

(3) The functions and features of the Fire Detection Control Panel Module BCM216-3LG are restricted to the processing of 2 ADM loops, the connection of conventional detector lines is not possible, control panel functions are not supported either (please see also the detailed product description in the catalogue)

Additional features and functions when operating in analogue ADM loop technology (provided that Loop Interfaces LIF64-1 are used in the sectional control panel: Note: The Fire Detection Control Panel Module BCM216-3LG integrates 2 loop interfaces)

- ◆ **ADM loop** supports 198 elements (99 detectors and 99 modules) using System Sensor/200 protocol or 126 elements (detectors and/or modules) using Apollo/Discovery protocol. Each ADM loop can be split in up to 128 detector zones, the control panel can support a total of 144 detector zones.
- ◆ **ADM loop wiring** can be accomplished as ring, branch or any given combination of sectional rings and branches using two-core unshielded cables.
- ◆ **ADM communication** is achieved by means of bi-directional data exchange between the fire detection control panel and every single element on the ADM loop.
- ◆ **ADM failure strategy** secures full functionality of all elements connected to the ADM loop in case of wire breakage. At short circuit, all elements not affected by the short circuit, thanks to the installed isolator modules, are fully operable.
- ◆ **ADM alarm threshold tracing** for every single smoke detector on the ADM loop according to its individual contamination. The sensitivity of every smoke detector is thus held constant over a very long period of time and deceptive alarms are avoided.
- ◆ **ADM alarm logic** analyses the measured values above alarm threshold (comparison of fire patterns) to increase immunity against deceptive alarms.
- ◆ **ADM multi alarm logic** increases the effect of the standard alarm logic by making use of the broad variety of freely parameterisable 2-detector or multi-detector interdependencies.
- ◆ **ADM individual detector identification** by assigning each physical address of an element on the ADM loop a logical address (that consists in a zone number and element number).
- ◆ 2-line **ADM detector text** can be assigned to every logical address on the ADM loop.
- ◆ **Individual ADM detector disablement** for every single element on the ADM loop or for predefined groups of elements.
- ◆ **ADM maintenance prognosis** by means of processor-aided interpolation of data concerning the trend of contamination for every single smoke detector on the ADM loop. This way it is possible to predict the next maintenance date with a high degree of probability which in turn results in major cost savings in maintenance during the lifetime of the fire detection system.
- ◆ **ADM detector test** checks the alarming capability of every ADM detector from the fire detection control panel.

- ♦ **ADM actuations** on the ADM loop by means of actuation elements as well as alarm sirens, which are freely parameterisable and are controlled individually by the control panel.
- ♦ **ADM address setting** is carried through separately at each loop element.
- ♦ **ADM flexibility** provides for the possibility to connect conventional detectors and special detectors via a Conventional Detector Module.

Specifications

See individual description of the BCnet sectional control panel and Fire Detection Control Panel Module

Approvals:	PfBST	FT 14/147/3/99 (Austria)
	VdS	G201017
	VKF	13400/2007
	EMILABS	85/2000
	ANPI	BFS/DE/1096 - -2003.03.20
	EZU	7.105034 - 00 / 00
	EVPÜ	03323 / 101 / 1 / 2002
	ABA	S-059/01
	UNIPO	B. 01832
	F.EL.	02012-C-709P3
	CNBOP	2238/2006

214056

BCnet Sectional Control Panel/OP. BC216-2/INT1

The BCnet Sectional Control Panel BC216-2/INT1 with its modular design and integrated display and operating field is suitable for use in a Fire Detection Control Panel BCnet216. Fire, fault and status detectors as well as control elements and alarming devices can be connected to up to 2 ADM loops in analogue technology or to a maximum of 16 detector zones in addressable conventional technology or to a combination thereof, depending on the optional modules used.



The Sectional Control Panel is installed in a wall-mount case made of powder coated steel sheet which is prepared for accommodating 2 function modules (Conventional Detector Interface GIF8-1 or Loop Interface LIF64-1), one Fire Brigade Interface FWI2-1, one Fire Brigade Interface Additional Board FWZ2-1, one LED Display Field LAB48-x, a Serial Interface Module SIM216-1 and further optional modules as well as a stand-by battery of 2 × 12V/max. 22Ah.

A summary of the extensive functions and features are provided in the description of the Fire Detection Control Panel BCnet216, No. 2199998. The labels of display and operating elements as well as the displayed and printer texts are in English language.

Specifications

Mains voltage	230VAC +10/-15%, 50Hz
Connection power	60VA
Output voltage	typ. 28VDC
Output peak current	max. 1.8A
Connection of external devices	typ. 0.8A, site-specific
Current consumption at 24V	typ. 125mA (without optional modules)
Ambient temperature	-5°C to +50°C
Dimensions W × H × D	420 × 520 × 120 (mm)
Colour	grey white, RAL 9002
Weight without batteries	approx. 6kg
Approval	VdS G201017

Cross-references	Page	Art.Nr.	Name	Type
	40	214003	Auxiliary Case for BC216 GEH216-4	
	26	214034	BCnet Sectional Control Panel/Extension BCE216-3LG	
	25	214005	BCnet Sectional Control Panel/No Operation BC216-3	
	50	223009	Control Zone Module SLM1-2	
	35	214020	Conventional Detector Interface GIF8-1	
	45	214601	Cover IP54 for BC216 GEH-IP54-BC-1/D1	
	58	218023	ESPA 4.4.4 Interface License ESPA-SS	
	47	218024	Extinguishing Control/8-Area License LC216-8LB	

37	214023	Fire Brigade Interface Additional Board FWZ2-1
36	214022	Fire Brigade Interface FWI2-1
37	214024	LED Display Field LAB48-1
38	214030	LED Display Field LAB48-2
38	214032	LED Display Field LAB48-3
39	214036	LED Display Field LAB48-4
35	214021	Loop Interface LIF64-1
51	214027	Network Cable NWK2-1
39	214031	Network Redundant Alarm Converter NNU5-1
66	227008	Protocol Printer/Dot-Matrix LX300
65	227003	Protocol Printer/Thermal DPU414-30B
63	222010	Relay Module 4-Fold/230V AC RL58-2
62	222004	Relay Module 8-Fold/60VDC RL58-1
52	214025	Serial Interface Module SIM216-1
61	223026	Siren Connection Module SZ58-3
287	310002	Stand-by Battery 12V/18Ah
58	218022	ZLT Interface License ZLT-SS

214004 BCnet Sectional Control Panel/OP. BC216-2/A1

The BCnet Sectional Control Panel BC216-2/A1 is a modularly designed sectional control panel with display and operating field in the version for Austria, for application in a Fire Detection Control Panel BCnet216. Functions, specifications and cross-references correspond to the Fire Detection Control Panel BC216-2/INT1. The labels of display and operating elements as well as the displayed and printer texts are in German language.

Approval FT 14/147/3/99 (Austria), VdS G201017

214612 BCnet Sectional Control Panel/OP. BC216-2/D1

The BCnet Sectional Control Panel BC216-2/D1 is a modularly designed sectional control panel with display and operating field in the version for Germany, for application in a Fire Detection Control Panel BCnet216. Functions, specifications and cross-references correspond to the Fire Detection Control Panel BC216-2/INT1. The labels of display and operating elements as well as the displayed and printer texts are in German language.

Approval VdS G201017

214060 BCnet Sectional Control Panel/OP. BC216-2/B1

Functions, specifications and cross-references correspond to the Fire Detection Control Panel BC216-2/INT1. The labels of display and operating elements as well as the displayed and printer texts are in French language.

Approval ANPI BFS/DE/1096 - 2003.03.20

214064 BCnet Sectional Control Panel/OP. BC216-2/CZ1

Functions, specifications and cross-references correspond to the Fire Detection Control Panel BC216-2/INT1. The labels of display and operating elements as well as the displayed and printer texts are in Czech language.

Using the optional interface (Serial Interface Module SIM216-1), the connection to the Random transmitting system can be realised.

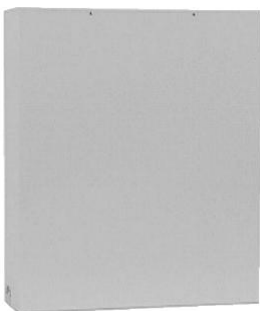
Approval EZU 7.105034-00/00

214062 BCnet Sectional Control Panel/OP. BC216-2/H1

Functions, specifications and cross-references correspond to the Fire Detection Control Panel BC216-2/INT1. The labels of display and operating elements as well as the displayed and printer texts are in Hungarian language.

Approval EMILABS 85/2000

- 214058 BCnet Sectional Control Panel/OP. BC216-2/NL1**
 Functions, specifications and cross-references correspond to the Fire Detection Control Panel BC216-2/INT1. The labels of display and operating elements as well as the displayed and printer texts are in Dutch language.
 Approval VdS G201017
- 214066 BCnet Sectional Control Panel/OP. BC216-2/SK1**
 Functions, specifications and cross-references correspond to the Fire Detection Control Panel BC216-2/INT1. The labels of display and operating elements as well as the displayed and printer texts are in Slovak language.
 Approval EVPÚ 03323/101/1/2002
- 214079 BCnet Sectional Control Panel/OP. BC216-2/HR1**
 Functions, specifications and cross-references correspond to the Fire Detection Control Panel BC216-2/INT1. The labels of display and operating elements as well as the displayed and printer texts are in Croatian language.
- 214081 BCnet Sectional Control Panel/OP. BC216-2/RUS1**
 Functions, specifications and cross-references correspond to the Fire Detection Control Panel BC216-2/INT1. The labels of display and operating elements as well as the displayed and printer texts are in Russian language with cyrillic characters.
 Approval B. 01832
- 214085 BCnet Sectional Control Panel/OP. BC216-2/SLO1**
 Functions, specifications and cross-references correspond to the Fire Detection Control Panel BC216-2/INT1. The labels of display and operating elements as well as the displayed and printer texts are in Slovenian language.
 Approval 02012-C-709P3
- 214087 BCnet Sectional Control Panel/OP. BC216-2/I1**
 Functions, specifications and cross-references correspond to the Fire Detection Control Panel BC216-2/INT1. The labels of display and operating elements as well as the displayed and printer texts are in Italian language.
 Approval VdS G201017
- 214089 BCnet Sectional Control Panel/OP. BC216-2/PL1**
 Functions, specifications and cross-references correspond to the Fire Detection Control Panel BC216-2/INT1. The labels of display and operating elements as well as the displayed and printer texts are in Polish language.
 Approval CNBOP 2238/2006
- 214005 BCnet Sectional Control Panel/No Operation BC216-3**
 The BCnet Sectional Control Panel BC216-3 is a modularly designed sectional control panel without display and operating field ("Black Box" control panel) for application in a Fire Detection Control Panel BCnet216. Depending on the boards inserted you can connect fire



detectors, fault detectors and condition detectors as well as actuation elements and alarming devices to a maximum of 2 ADM loops, or to a maximum of 16 detector lines in addressable conventional technology, or to a combination of both.

The sectional control panel is installed in a wall-mount cabinet made of powder coated sheet steel and prepared for 2 function modules (Conventional Detector Interface GIF8-1 or Loop Interface LIF64-1), a Fire Brigade Interface FWI2-1, a Fire Brigade Interface Additional Board FWZ2-1, a Serial Interface Module SIM216-1 and additional optional componentries as well as a stand-by battery with $2 \times 12V/\text{max. } 22\text{Ah}$.

The extensive functions and features are summarised in the description of the Fire Detection Control Panel BCnet216, No. 2199998.

Specifications

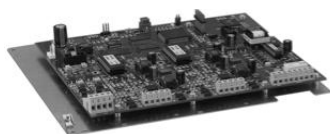
Mains voltage	230VAC +10/-15%, 50Hz
Connection power	60VA
Output voltage	typ. 28VDC
Output peak current	max. 1.8A
Connection of external devices	typ. 0.8A, site-specific
Current consumption at 24V	typ. 90mA (without optional componentries)
Ambient temperature	-5°C to +50°C
Dimensions W × H × D	420 × 520 × 120 (mm)
Colour	grey white, RAL 9002
Weight without batteries	approx. 6kg
Approvals	FT 14/147/3/99 (Austria), VdS G201017

Cross-references	Page	Art.Nr.	Name	Type
	40	214003	Auxiliary Case for BC216 GEH216-4	
	26	214034	BCnet Sectional Control Panel/Extension BCE216-3LG	
	23	214056	BCnet Sectional Control Panel/OP. BC216-2/INT1	
	50	223009	Control Zone Module SLM1-2	
	35	214020	Conventional Detector Interface GIF8-1	
	58	218023	ESPA 4.4.4 Interface License ESPA-SS	
	47	218024	Extinguishing Control/8-Area License LC216-8LB	
	37	214023	Fire Brigade Interface Additional Board FWZ2-1	
	36	214022	Fire Brigade Interface FWI2-1	
	35	214021	Loop Interface LIF64-1	
	51	214027	Network Cable NWK2-1	
	39	214031	Network Redundant Alarm Converter NNU5-1	
	66	227008	Protocol Printer/Dot-Matrix LX300	
	65	227003	Protocol Printer/Thermal DPU414-30B	
	63	222010	Relay Module 4-Fold/230VAC RL58-2	
	62	222004	Relay Module 8-Fold/60VDC RL58-1	
	52	214025	Serial Interface Module SIM216-1	
	61	223026	Siren Connection Module SZ58-3	
	287	310002	Stand-by Battery 12V/18Ah	
	58	218022	ZLT Interface License ZLT-SS	

214034

BCnet Sectional Control Panel/Extension BCE216-3LG

The BCnet Sectional Control Panel/Extension BCE216-3LG allows for the extension of a Fire Detection Control Panel BCnet216 with two ADM loops for detectors and modules using System Sensor/200 or Apollo/Discovery protocols. The extension is integrated into the Fire



Detection Control Panel BCnet216 by installing it in a BCnet Sectional Control Panel BC216-2 or BC216-3 and connecting it to the GSSnet wiring via the GSSnet interface on the extension.

The 24V supply of the BCnet Sectional Control Panel/Extension BCE216-3LG is shared with the BCnet sectional control panel in whose cabinet it has been installed; it does not have a power supply or battery charger of its own. The extension is designed as compact unit and mounted on a pivoting sheet steel carrier.

The loop processing functions of the BCE216-3LG fully correspond to the functions of a BCnet Sectional Control Panel BC216-2 equipped with 2 Loop Interfaces LIF64-1, with the limitation that, apart from the BCnet redundant alarm function, no additional control panel functions are supported.

The extensive functions and features are summarised in the description of the Fire Detection Control Panel BCnet216, No. 2199998.

Features

- ◆ Per ADM loop a maximum of 128 detector zones in ADM technology for the connection of manual call points, automatic detectors, conventional detector modules, control modules and signalling devices. The BCnet Sectional Control Panel/Extension can support a total of 144 detector zones.
- ◆ ADM loop wiring is realised as ring, branch or any given combination of sectional rings and branches using unscreened cables.
- ◆ Two isolator modules at the beginning and the end of every ADM loop are integrated on the componentry
- ◆ Connection of 198 physical address points (99 detectors and 99 modules) per ADM loop using System Sensor/200 protocol
- ◆ Connection of 126 physical address points (detectors or modules) per ADM loop using Apollo/Discovery protocol
- ◆ Every physical address is assigned an organisational address (individual detector identification)
- ◆ Free assignment of detector zones or individual detectors for the activation of transmitting devices, actuations or alarming devices
- ◆ Maintenance prognosis for every single connected smoke detector
- ◆ Full function of all loop elements in case of wire breakage on the ADM loop line
- ◆ At short circuit, all elements not affected are fully operable thanks to the installed isolator modules
- ◆ In addition to the main processor, an independent CMOS processor per ADM loop is installed to ensure the alarming capability even at system failure
- ◆ Transmission of an alarms via BCnet redundant alarm line even in case of multiple line faults in the GSSnet or at system failure of the BCnet sectional control panel

Specifications

Supply voltage	21 to 30VDC
Current consumption at 24V	140mA (without detectors)
Idle loop current	typ. 300µA per detector/module
Total loop current	max. 300mA (at reduced line resistance)
Idle loop voltage	typ. 26V (Apollo/Discovery) or typ. 29V (System Sensor/200)
Loop line resistance	max. 50 Ohm per core
Number of ADM loops	2
Number of detector zones	max. 128 per loop, max. 144 in total
Ambient temperature	-5°C to +50°C
Dimensions W × H × D	248 × 222 × 28 (mm)
Weight	approx. 675g

Cross-references	Page	Art.Nr.	Name	Type
	25	214005	BCnet Sectional Control Panel/No Operation BC216-3	
	23	214056	BCnet Sectional Control Panel/OP. BC216-2/INT1	

214108

Fire Detection Control Panel BC216-1CE/INT1

The Fire Detection Control Panel BC216-1CE/INT1 is a modularly designed compact control panel in 19" slide-in technology for small and medium size fire detection systems. Depending on the boards inserted you can connect fire detectors, fault detectors and condition



detectors as well as actuation elements and alarming devices to a maximum of 2 ADM loops, or to a maximum of 16 detector lines in addressable conventional technology, or to a combination of both. Thanks to its wide range of possible logic combinations for alarming and transmitting devices as well as for actuations, the control panel can realise even extensive and complex alarming and control tasks in

the fire alarm technology. It complies with all requirements of the European Standards EN 54-2 and EN 54-4 including all options for the highest safety demands.

The control panel is designed as 19" slide-in unit with 6 height units to be mounted in an optional 19" cabinet. The slide-in unit is prepared for 2 function modules (Conventional Detector Interface GIF8-1 or Loop Interface LIF64-1), a Fire Brigade Interface FWI2-1, a Fire Brigade Interface Additional Board FWZ2-1, an LED Display Field LAB48-1, a Serial Interface Module SIM216-1 and additional optional componentries as well as a stand-by battery with $2 \times 12\text{V}/\text{max. } 22\text{Ah}$. The labels of display and operating elements as well as the displayed and printer texts are in English language.

The extensive functions and features correspond to the full extent to the Fire Detection Control Panel BC216-1/INT1, Art. No. 214008.

By installing a Network Interface Module NIF5-1M in the Fire Detection Control Panel BC216-1CE, the latter can be integrated as BCnet sectional control panel with display and operating field into a Fire Detection Control Panel BCnet216. For further information please refer to the description of the Fire Detection Control Panel BCnet216, Art. No. 2199998.

Specifications

Mains voltage	230VAC +10/-15%, 50Hz
Connection power	60VA
Output voltage	typ. 28VDC
Output peak current	max. 1.8A
Connection of external devices	typ. 0.8A, site-specific
Current consumption at 24V	typ. 90mA (without optional componentries)
Ambient temperature	-5°C to +50°C
Dimensions W × H × D	478 × 266 (6 height units) × 95 (mm)
Colour	grey white, RAL 9002
Weight without batteries	approx. 6kg
Approval	FT 14/147/3/99 (Austria), VdS G201017

Cross-references	Page	Art.Nr.	Name	Type
	41	214128	Battery Bracket BK216-1CE	
	29	214105	BCnet Sectional Control Panel/No Op. BC216-3CE	
	50	223009	Control Zone Module SLM1-2	
	35	214020	Conventional Detector Interface GIF8-1	
	58	218023	ESPA 4.4.4 Interface License ESPA-SS	
	47	218024	Extinguishing Control/8-Area License LC216-8LB	
	37	214023	Fire Brigade Interface Additional Board FWZ2-1	
	36	214022	Fire Brigade Interface FWI2-1	
	37	214024	LED Display Field LAB48-1	
	38	214030	LED Display Field LAB48-2	
	38	214032	LED Display Field LAB48-3	
	39	214036	LED Display Field LAB48-4	
	51	214027	Network Cable NWK2-1	
	51	214033	Network Interface Module NIF5-1M	
	66	227008	Protocol Printer/Dot-Matrix LX300	
	65	227003	Protocol Printer/Thermal DPU414-30B	
	63	222010	Relay Module 4-Fold/230VAC RL58-2	
	62	222004	Relay Module 8-Fold/60VDC RL58-1	
	52	214025	Serial Interface Module SIM216-1	
	61	223026	Siren Connection Module SZ58-3	
	287	310002	Stand-by Battery 12V/18Ah	
	58	218022	ZLT Interface License ZLT-SS	

214100 Fire Detection Control Panel BC216-1CE/A1

The Fire Detection Control Panel BC216-1CE/A1 is a modularly designed compact control panel in 19" slide-in technology in the version for Austria, for small and medium size fire detection systems. Functions, specifications and cross-references correspond to the Fire Detection Control Panel BC216-1CE/INT1. The labels of display and operating elements as well as the displayed and printer texts are in German language.

Approval FT 14/147/3/99 (Austria), VdS G201017

214611 Fire Detection Control Panel BC216-1CE/D1

The Fire Detection Control Panel BC216-1CE/D1 is a modularly designed compact control panel in 19" slide-in technology in the version for Germany, for small and medium size fire detection systems. Functions, specifications and cross-references correspond to the Fire Detection Control Panel BC216-1CE/INT1. The labels of display and operating elements as well as the displayed and printer texts are in German language.

Approval VdS G201017

214158 Fire Detection Control Panel BC216-1CE/NL1

Functions, specifications and cross-references correspond to the Fire Detection Control Panel BC216-1CE/INT1. The labels of display and operating elements as well as the displayed and printer texts are in Dutch language. A User Manual in English is included in delivery.

Approval VdS G201017

214164 Fire Detection Control Panel BC216-1CE/CZ1

Functions, specifications and cross-references correspond to the Fire Detection Control Panel BC216-1CE/INT1. The labels of display and operating elements as well as the displayed and printer texts are in Czech language. A User Manual in English is included in delivery.

Approval EZU 7.105034-00/00

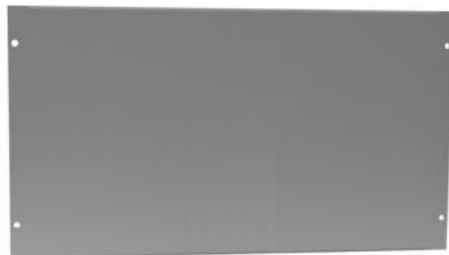
214109 Fire Detection Control Panel BC216-1CE/H1

Functions, specifications and cross-references correspond to the Fire Detection Control Panel BC216-1CE/INT1. The labels of display and operating elements as well as the displayed and printer texts are in Hungarian language. A User Manual in English is included in delivery.

Approval EMILABS 85/2000

214105 BCnet Sectional Control Panel/No Op. BC216-3CE

The BCnet Sectional Control Panel BC216-3CE is a modularly designed sectional control panel in 19" slide-in technology without display and operating field ("Black Box" control panel) for application in a Fire Detection Control Panel BCnet216. Depending on the boards



inserted you can connect fire detectors, fault detectors and condition detectors as well as actuation elements and alarming devices to a maximum of 2 ADM loops, or to a maximum of 16 detector lines in addressable conventional technology, or to a combination of both.

The sectional control panel is designed as 19" slide-in unit with 6 height units to be mounted in an optional 19" cabinet. The

slide-in unit is prepared for 2 function modules (Conventional Detector Interface GIF8-1 or Loop Interface LIF64-1), a Fire Brigade Interface FWI2-1, a Fire Brigade Interface Additional Board FWZ2-1, an LED Display Field LAB48-1, a Serial Interface Module SIM216-1 and

additional optional componentries as well as a Battery Bracket BK216-1CE for the installation of a stand-by battery with 2 × 12V/max. 22Ah.

The extensive functions and features are summarised in the description of the Fire Detection Control Panel BCnet216, No. 2199998.

Specifications

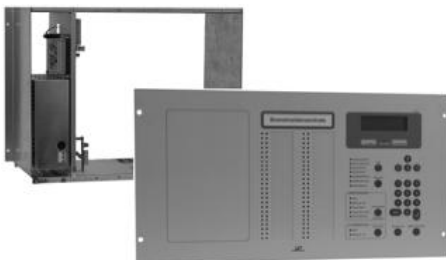
Mains voltage	230VAC +10/-15%, 50Hz
Connection power	60VA
Output voltage	typ. 28VDC
Output peak current	max. 1.8A
Connection of external devices	typ. 0.8A, site-specific
Current consumption at 24V	typ. 90mA (without optional componentries)
Ambient temperature	-5°C to +50°C
Dimensions W × H × D	478 × 266 (6 height units) × 95 (mm)
Colour	grey white, RAL 9002
Weight without batteries	approx. 6kg
Approvals	FT 14/147/3/99 (Austria), VdS G201017

Cross-references	Page	Art.Nr.	Name	Type
	41	214128	Battery Bracket BK216-1CE	
	50	223009	Control Zone Module SLM1-2	
	35	214020	Conventional Detector Interface GIF8-1	
	58	218023	ESPA 4.4.4 Interface License ESPA-SS	
	47	218024	Extinguishing Control/8-Area License LC216-8LB	
	37	214023	Fire Brigade Interface Additional Board FWZ2-1	
	36	214022	Fire Brigade Interface FWI2-1	
	27	214108	Fire Detection Control Panel BC216-1CE/INT1	
	35	214021	Loop Interface LIF64-1	
	51	214027	Network Cable NWK2-1	
	66	227008	Protocol Printer/Dot-Matrix LX300	
	65	227003	Protocol Printer/Thermal DPU414-30B	
	63	222010	Relay Module 4-Fold/230VAC RL58-2	
	62	222004	Relay Module 8-Fold/60VDC RL58-1	
	52	214025	Serial Interface Module SIM216-1	
	61	223026	Siren Connection Module SZ58-3	
	287	310002	Stand-by Battery 12V/18Ah	
	58	218022	ZLT Interface License ZLT-SS	

2149997

BCnet Sectional Control Panel/OP. BC216-2EPS

The BCnet Sectional Control Panel BC216-2EPS is the basic set of a Fire Detection Control Panel BCnet216 in 19" slide-in unit design. It consists of



- ◆ One Control Panel Rack/8HU RACK216-1E
- ◆ One Fire Detection Control Panel Module/PS BCM216-3EPS and
- ◆ One Display and Operating Front Panel ABP216-1E.

This basic unit provides space for up to 6 additional BCnet sectional control panels (Fire Detection Control Panel Modules BCM216-3E or BCM216-3ELG), which are supplied by the power unit of the module BCM216-3EPS. If the power does not suffice to supply all sectional control panels, you can install an additional module BCM216-3EPS instead of 2 modules BCM216-3E or BCM216-3ELG.

The extensive functions and features are summarised in the description of the Fire Detection Control Panel BCnet216, No. 2199998, as well as in the description of the individual components.

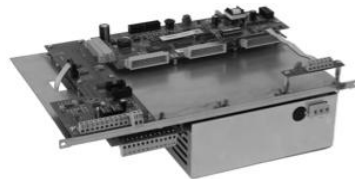
Cross-references	Page	Art.Nr.	Name	Type
	42	214230	Control Panel Rack/8HU RACK216-1E	
	50	223009	Control Zone Module SLM1-2	
	35	214020	Conventional Detector Interface GIF8-1	
	33	214208	Display and Operating Front Panel ABP216-1E/INT1	

37	214023	Fire Brigade Interface Additional Board FWZ2-1
36	214022	Fire Brigade Interface FWI2-1
32	214234	Fire Detection Control Panel Module/LG BCM216-3ELG
31	214204	Fire Detection Control Panel Module/PS BCM216-3EPS
32	214205	Fire Detection Control Panel Module BCM216-3E
52	214231	Interface Adapter Module IAM216-1E
37	214024	LED Display Field LAB48-1
38	214030	LED Display Field LAB48-2
38	214032	LED Display Field LAB48-3
39	214036	LED Display Field LAB48-4
35	214021	Loop Interface LIF64-1
51	214027	Network Cable NWK2-1
39	214031	Network Redundant Alarm Converter NNU5-1
66	227008	Protocol Printer/Dot-Matrix LX300
65	227003	Protocol Printer/Thermal DPU414-30B
63	222010	Relay Module 4-Fold/230VAC RL58-2
62	222004	Relay Module 8-Fold/60VDC RL58-1
61	223026	Siren Connection Module SZ58-3
289	310005	Stand-by Battery 12V/65Ah

214204

Fire Detection Control Panel Module/PS BCM216-3EPS

The Fire Detection Control Panel Module/PS BCM216-3EPS is a BCnet sectional control panel in slide-in unit design with a powerful power supply but without display and operating field. It is mounted on a sheet steel carrier and designed for use in a Control Panel Rack/8HU RACK216-1E.



The module is prepared for 2 function modules (Conventional Detector Interface GIF8-1 or Loop Interface LIF64-1), a Fire Brigade Interface FWI2-1, a Fire Brigade Interface Additional Board FWZ2-1 and an Interface Adapter Module IAM216-1E.

By connecting a Display and Operating Front Panel ABP216-1E to the Fire Detection Control Panel Module/PS BCM216-3EPS, the BCnet Sectional Control Panel can be operated directly.

The power supply unit of the fire detection control panel module meets all requirements of the European Standard EN 54-4 and is designed to supply additional Fire Detection Control Panel Modules installed in the RACK216-1E, to provide power supply for the connected external devices of the fire detection system, and to charge an optional stand-by battery. If several BCM216-3EPS are used in a fire detection control panel, they must be used independently from each other and with separate stand-by batteries.

The extensive functions and features are summarised in the description of the Fire Detection Control Panel BCnet216, No. 2199998.

Specifications

Mains voltage	230VAC +10/-15%, 50Hz
Connection power	300VA
Output voltage	typ. 27.6VDC
Output peak current	typ. 8.4A
Connection of external devices	typ. 6A, site-specific
Current consumption at 24V	typ. 90mA (without optional componentries)
Ambient temperature	-5°C to +50°C
Dimensions W × H × D	233 × 355 × 104 (mm)
Weight	approx. 2.8kg
Approvals	FT 14/147/3/99 (Austria), VdS G201017

Cross-references	Page	Art.Nr.	Name	Type
		30	2149997	BCnet Sectional Control Panel/OP. BC216-2EPS
		42	214230	Control Panel Rack/8HU RACK216-1E
		50	223009	Control Zone Module SLM1-2
		35	214020	Conventional Detector Interface GIF8-1
		33	214208	Display and Operating Front Panel ABP216-1E/INT1
		58	218023	ESPA 4.4.4 Interface License ESPA-SS
		47	218024	Extinguishing Control/8-Area License LC216-8LB
		37	214023	Fire Brigade Interface Additional Board FWZ2-1

36	214022	Fire Brigade Interface FWI2-1
32	214234	Fire Detection Control Panel Module/LG BCM216-3ELG
32	214205	Fire Detection Control Panel Module BCM216-3E
52	214231	Interface Adapter Module IAM216-1E
35	214021	Loop Interface LIF64-1
51	214027	Network Cable NWK2-1
66	227008	Protocol Printer/Dot-Matrix LX300
65	227003	Protocol Printer/Thermal DPU414-30B
62	222004	Relay Module 8-Fold/60VDC RL58-1
61	223026	Siren Connection Module SZ58-3
289	310005	Stand-by Battery 12V/65Ah
58	218022	ZLT Interface License ZLT-SS

214205**Fire Detection Control Panel Module BCM216-3E**

The Fire Detection Control Panel Module BCM216-3E is a BCnet sectional control panel in slide-in unit design without display and operating field. It is mounted on a sheet steel carrier and designed for use in a Control Panel Rack/8HU RACK216-1E.



The slide-in unit is prepared for a maximum of 2 function modules (Conventional Detector Interface GIF8-1 or Loop Interface LIF64-1), a Fire Brigade Interface FWI2-1, a Fire Brigade Interface Additional Board FWZ2-1 and an Interface Adapter Module IAM216-1E.

By connecting a Display and Operating Front Panel ABP216-1E to the Fire Detection Control Panel Module BCM216-3E, the BCnet Sectional Control Panel can be operated directly.

The extensive functions and features are summarised in the description of the Fire Detection Control Panel BCnet216, No. 2199998.

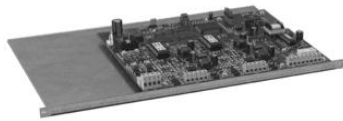
Specifications

Supply voltage	21 to 30VDC
Current consumption at 24V	typ. 80mA (without optional componentries)
Ambient temperature	-5°C to +50°C
Dimensions W × H × D	233 × 355 × 42 (mm)
Weight	approx. 0.9kg
Approvals	FT 14/147/3/99 (Austria), VdS G201017

Cross-references	Page	Art.Nr.	Name	Type
	30	2149997	BCnet Sectional Control Panel/OP. BC216-2EPS	
	42	214230	Control Panel Rack/8HU RACK216-1E	
	50	223009	Control Zone Module SLM1-2	
	35	214020	Conventional Detector Interface GIF8-1	
	33	214208	Display and Operating Front Panel ABP216-1E/INT1	
	58	218023	ESPA 4.4.4 Interface License ESPA-SS	
	47	218024	Extinguishing Control/8-Area License LC216-8LB	
	37	214023	Fire Brigade Interface Additional Board FWZ2-1	
	36	214022	Fire Brigade Interface FWI2-1	
	32	214234	Fire Detection Control Panel Module/LG BCM216-3ELG	
	31	214204	Fire Detection Control Panel Module/PS BCM216-3EPS	
	52	214231	Interface Adapter Module IAM216-1E	
	35	214021	Loop Interface LIF64-1	
	51	214027	Network Cable NWK2-1	
	66	227008	Protocol Printer/Dot-Matrix LX300	
	65	227003	Protocol Printer/Thermal DPU414-30B	
	63	222010	Relay Module 4-Fold/230V AC RL58-2	
	62	222004	Relay Module 8-Fold/60VDC RL58-1	
	61	223026	Siren Connection Module SZ58-3	
	58	218022	ZLT Interface License ZLT-SS	

214234**Fire Detection Control Panel Module/LG BCM216-3ELG**

The Fire Detection Control Panel Module/LG BCM216-3ELG allows for the extension of a Fire Detection Control Panel BCnet216 with two ADM loops for detectors and modules using System Sensor/200 or Apollo/Discovery protocols. The module is mounted as slide-in



unit on a sheet steel carrier and is used in a Control Panel Rack/8HU RACK216-1E. It is integrated into the BCnet216 by connecting it to the GSSnet wiring via the GSSnet interface on the module.

The functions of the loop elements at the Fire Detection Control Panel Module/LG BCM216-3ELG fully correspond to the functions of a BCnet Sectional Control Panel BCM216-3E equipped with 2 Loop Interfaces LIF64-1, with the limitation that apart from the BCnet redundant alarm function no additional control panel functions are supported.

Features

- ◆ Per ADM loop a maximum of 128 detector zones in ADM technology for the connection of manual call points, automatic detectors, conventional modules, control modules and signalling devices. The Fire Detection Control Panel Module/LG can support a total of 144 detector zones.
- ◆ ADM loop wiring is realised as ring, branch or any given combination of sectional rings and branches using unscreened cables.
- ◆ Two isolator modules at the beginning and the end of every ADM loop are integrated on the componentry
- ◆ Connection of 198 physical address points (99 detectors and 99 modules) per loop using System Sensor/200 protocol
- ◆ Connection of 126 physical address points (detectors or modules) per loop using Apollo/Discovery protocol
- ◆ Every physical address is assigned an organisational address (individual detector identification)
- ◆ Free assignment of detector zones or individual detectors for the activation of transmitting devices, actuations or alarming devices
- ◆ Maintenance prognosis for every single connected smoke detector
- ◆ Full function of all connected elements in case of wire breakage on the ADM loop line
- ◆ At short circuit, all elements not affected are fully operable thanks to the installed isolator modules
- ◆ In addition to the main processor, an independent CMOS processor per ADM loop is installed to ensure the alarming capability even at system failure

Specifications

Supply voltage	21 to 30VDC
Current consumption at 24V	140mA (without detectors/modules)
Idle loop current	typ. 300µA per detector/module
Total loop current	max. 300mA (at reduced line resistance)
Idle loop voltage	typ. 26V (Apollo/Discovery) or typ. 29V (System Sensor/200)
Loop line resistance	max. 50 Ohm per core
Number of ADM loops	2
Number of detector zones	max. 128 per ADM loop, max. 144 in total
Ambient temperature	-5°C to +50°C
Dimensions W × H × D	233 × 355 × 30 (mm)
Weight	approx. 1kg
Approvals	FT 14/147/3/99 (Austria), VdS G201017

Cross-references	Page	Art.Nr.	Name	Type
	30	2149997	BCnet Sectional Control Panel/OP. BC216-2EPS	
	42	214230	Control Panel Rack/8HU RACK216-1E	
	31	214204	Fire Detection Control Panel Module/PS BCM216-3EPS	
	32	214205	Fire Detection Control Panel Module BCM216-3E	

214208

Display and Operating Front Panel ABP216-1E/INT1

The Display and Operating Front Panel ABP216-1E/INT1 is used as display and operating unit in BCnet sectional control panels, which are composed of fire detection control panel modules. It contains all standard display and operating elements of a Fire Detection Control



Panel Series BC216, can be equipped with an LED Display Field LAB48-x, and is designed as 19" front panel of 6 height units. The labels of display and operating elements are in English language.

The Display and Operating Front Panel ABP216-E/INT1 is connected to a Fire Detection Control Panel Module BCM216-3EPS or BCM216-3E with a special cable with a length of 1.5m. Note: The ABP216-1E/INT1 must be installed in the same housing with the device that controls it; the original connection cable must not be extended.

Specifications

Current consumption at 24V	typ. 35mA
Connection cable	1.5m
Ambient temperature	-5°C to +50°C
Dimensions W × H × D	478 × 266 (6 height units) × 40 (mm)
Weight	approx. 2kg
Approval	VdS G201017

Cross-references	Page	Art.Nr.	Name	Type
	30	2149997	BCnet Sectional Control Panel/OP. BC216-2EPS	
	31	214204	Fire Detection Control Panel Module/PS BCM216-3EPS	
	32	214205	Fire Detection Control Panel Module BCM216-3E	
	37	214024	LED Display Field LAB48-1	
	38	214030	LED Display Field LAB48-2	
	38	214032	LED Display Field LAB48-3	
	39	214036	LED Display Field LAB48-4	

214200 Display and Operating Front Panel ABP216-1E/A1

The Display and Operating Front Panel ABP216-1E/A1 in the version for Austria is used as display and operating unit in BCnet sectional control panels, which are composed of fire detection control panel modules. Functions, specifications and cross-references correspond to the Display and Operating Front Panel ABP216-1E/INT1. The labels of display and operating elements are in German language.

Approvals FT 14/147/3/99 (Austria), VdS G201017

214615 Display and Operating Front Panel ABP216-1E/D1

The Display and Operating Front Panel ABP216-1E/D1 in the version for Germany is used as display and operating unit in BCnet sectional control panels, which are composed of fire detection control panel modules. Functions, specifications and cross-references correspond to the Display and Operating Front Panel ABP216-1E/INT1. The labels of display and operating elements are in German language.

Approval VdS G201017

214209 Display and Operating Front Panel ABP216-1E/NL1

Functions, specifications and cross-references correspond to the Display and Operating Front Panel ABP216-1E/INT1. The labels of display and operating elements are in Dutch language.

Approval VdS G201017

214020 Conventional Detector Interface GIF8-1

The Conventional Detector Interface GIF8-1 supports 8 detector zones in addressable conventional technology in Fire Detection Control Panels Series BC216.



Features

- ◆ 8 detector lines in addressable conventional technology, that can be individually configured as: detector zone for fire alarm for the connection of manual call points as well as automatic detectors with or without alarm verification, detector zone for technical messages for the connection of surveillance and status detectors, detector zone for fault messages for the connection of fault detectors and detector zone for special functions (e.g., for control commands)
- ◆ Individual detector identification for up to 64 addresses per detector line in conjunction with optional address modules
- ◆ Detector lines monitored for wire breakage, short circuit and earth fault
- ◆ Freely parameterisable allocation of the detector lines for activating transmitting devices, actuators and alarming devices
- ◆ Independent CMOS processor to ensure the alarming capability even at system failure of the control panel

Specifications

Current consumption at 24V	typ. 50mA (8 zones terminated, without detectors)
Line voltage	typ. 20.0V
Line current	typ. 3.7mA
End-of-line resistance	5.6kOhm
Line resistance	max. 50 Ohm per core
Ambient temperature	-5°C to +50°C
Dimensions L × W × H	132 × 74 × 10 (mm)
Weight	80g

Cross-references	Page	Art.Nr.	Name	Type
	155	249028	Address Module/Conv./Apo NG60-1	
	119	249020	Address Module/Conv. NG58-1	
	29	214105	BCnet Sectional Control Panel/No Op. BC216-3CE	
	25	214005	BCnet Sectional Control Panel/No Operation BC216-3	
	23	214056	BCnet Sectional Control Panel/OP. BC216-2/INT1	
	12	214008	Fire Detection Control Panel BC216-1/INT1	
	27	214108	Fire Detection Control Panel BC216-1CE/INT1	
	31	214204	Fire Detection Control Panel Module/PS BCM216-3EPS	
	32	214205	Fire Detection Control Panel Module BCM216-3E	

214021 Loop Interface LIF64-1

The Loop Interface LIF64-1 supports one ADM loop with bi-directional data exchange (System Sensor/200 or Apollo/Discovery protocol) with up to 198 loop elements in Fire Detection Control Panel Series BC216.



Features

- ◆ Connection of manual call points, automatic detectors, conventional detector modules, control modules and signalling devices in ADM technology.
- ◆ ADM loop wiring can be realised as ring, branch or any given combination of sectional rings and branches using unscreened cables.
- ◆ Two isolator modules at the beginning and the end of the ADM loop are integrated on the componentry
- ◆ Connection of 198 physical address points (99 detectors and 99 modules) using System Sensor/200 protocol
- ◆ Connection of 126 physical address points (detectors or modules) using Apollo/Discovery protocol
- ◆ Full function of all elements in case of wire breakage on the ADM loop line

- ◆ At short circuit, all elements not affected are fully operable thanks to the installed isolator modules
- ◆ Independent CMOS processor to ensure the alarming capability even at system failure of the control panel

Specifications

Current consumption at 24V	typ. 25mA (without detectors, modules)
Idle loop current	typ. 300µA per detector/module
Total loop current	max. 300mA (at reduced line resistance)
Idle loop voltage	typ. 26V (Apollo/Discovery) or typ. 29V (System Sensor/200)
Loop line resistance	max. 50 Ohm per core
Ambient temperature	-5°C to +50°C
Dimensions L × W × H	132 × 74 × 10 (mm)
Weight	80g

Cross-references	Page	Art.Nr.	Name	Type
	29	214105	BCnet Sectional Control Panel/No Op. BC216-3CE	
	25	214005	BCnet Sectional Control Panel/No Operation BC216-3	
	23	214056	BCnet Sectional Control Panel/OP. BC216-2/INT1	
	12	214008	Fire Detection Control Panel BC216-1/INT1	
	27	214108	Fire Detection Control Panel BC216-1CE/INT1	
	31	214204	Fire Detection Control Panel Module/PS BCM216-3EPS	
	32	214205	Fire Detection Control Panel Module BCM216-3E	
	103	249003	Isolator Module/Anal./500/200/SS ISM1-2	
	147	249029	Isolator Module/Anal./Apo ISM1-3	

214022 Fire Brigade Interface FWI2-1

By means of dry contacts, the Fire Brigade Interface FWI2-1 allows for the connection of two independent transmitting devices for the direct interconnection to a designated alarm respondent (e.g., the fire brigade) as well as the connection of a country specific fire brigade control unit to Fire Detection Control Panels Series BC216.



Features

- ◆ Two independent relays with one dry changeover contact each
- ◆ Nine inputs and eight outputs, freely parameterisable, for the connection of a country specific fire brigade control unit and other devices
- ◆ All inputs and outputs are available on screw terminals

Specifications

Current consumption at 24V	typ. 4mA
Switching power per contact	60V/1A/30W
Contact life	3 × 10 ⁵
Ambient temperature	-5°C to +50°C
Dimensions L × W × H	132 × 74 × 10 (mm)
Weight	70g

Cross-references	Page	Art.Nr.	Name	Type
	29	214105	BCnet Sectional Control Panel/No Op. BC216-3CE	
	25	214005	BCnet Sectional Control Panel/No Operation BC216-3	
	23	214056	BCnet Sectional Control Panel/OP. BC216-2/INT1	
	37	214023	Fire Brigade Interface Additional Board FWZ2-1	
	12	214008	Fire Detection Control Panel BC216-1/INT1	
	27	214108	Fire Detection Control Panel BC216-1CE/INT1	
	16	214308	Fire Detection Control Panel BC216-1S/INT1	
	31	214204	Fire Detection Control Panel Module/PS BCM216-3EPS	
	32	214205	Fire Detection Control Panel Module BCM216-3E	
	39	214031	Network Redundant Alarm Converter NNU5-1	

214023 Fire Brigade Interface Additional Board FWZ2-1

The Fire Brigade Interface Additional Board FWZ2-1 that is attached to the Fire Brigade Interface FWI2-1 allows for the connection of two independent line-monitored transmitting devices for the direct interconnection to a designated alarm respondent (e.g., fire brigade).



Features

- ◆ Two independent line-monitored outputs, that functionally correspond to the relay outputs of the Fire Brigade Interface FWI2-1
- ◆ 3 different levels of surveillance current can be set

Specifications

Current consumption at 24V	typ. 4mA (both outputs not connected) max. 28mA (both outputs connected)
Ambient temperature	-5°C to +50°C
Dimensions L × W × H	117 × 74 × 10 (mm)
Weight	70g

Cross-references	Page	Art.Nr.	Name	Type
	36	214022	Fire Brigade Interface FWI2-1	

214024 LED Display Field LAB48-1

The LED Display Field LAB48-1 contains 48 freely parameterisable double LEDs (red/yellow) for the individual display of events of the detector zones, actuations, transmitting devices or alarming devices at Fire Detection Control Panels Series BC216 and of events of the flooding zones and extinguishing systems at the Extinguishing Control Panel Series LC216. The double LEDs are arranged in two rows each with 24 pairs.



In addition, the LED Display Field can be installed into an LED Display Tableau LAT288, that serves as a freely programmable display for the events of a Fire Detection Control Panel Series BC016 or BC216, as well as an Extinguishing Control Panel Series LC216.

Features

- ◆ 48 double LEDs (left hand side red, right hand side yellow), freely parameterisable according to individual events
- ◆ Display of activation as well as deactivation or fault condition of the parameterised event
- ◆ Designation labels provide for individual marking of every double LED

Specifications

Current consumption at 24V	typ. 2mA no active LED, +0.25mA per LED
Ambient temperature	-5°C to +50°C
Dimensions L × W × H	176 × 120 × 15 (mm)
Weight	60g

Cross-references	Page	Art.Nr.	Name	Type
	23	214056	BCnet Sectional Control Panel/OP. BC216-2/INT1	
	33	214208	Display and Operating Front Panel ABP216-1E/INT1	
	12	214008	Fire Detection Control Panel BC216-1/INT1	
	27	214108	Fire Detection Control Panel BC216-1CE/INT1	
	16	214308	Fire Detection Control Panel BC216-1S/INT1	
	72	252010	LED Display Tableau LAT288-1	
	72	252011	LED Display Tableau LAT288-1CE	
	73	252012	Remote Tableau Drive Unit PTU288-1	

214030 LED Display Field LAB48-2

The LED Display Field LAB48-2 contains 48 freely parameterisable double LEDs (yellow/yellow) for the individual display of events of the detector zones, actuations, transmitting devices or alarming devices at Fire Detection Control Panels Series BC216 and of events of the flooding zones and extinguishing systems at the Extinguishing Control Panel Series LC216. The double LEDs are arranged in two rows each with 24 pairs.



In addition, the LED Display Field can be installed into an LED Display Tableau LAT288, that serves as a freely programmable display for the events of a Fire Detection Control Panel Series BC016 or BC216, as well as an Extinguishing Control Panel Series LC216.

Features

- ◆ 48 double LEDs (left and right hand side yellow), freely parameterisable according to individual events
- ◆ Display of activation as well as deactivation or fault condition of the parameterised event
- ◆ Designation labels allow for individual marking of every double LED

Specifications

Current consumption at 24V	typ. 2mA no active LED, +0.25mA per LED
Ambient temperature	-5°C to +50°C
Dimensions L × W × H	176 × 120 × 15 (mm)
Weight	60g

Cross-references	Page	Art.Nr.	Name	Type
	23	214056	BCnet Sectional Control Panel/OP. BC216-2/INT1	
	33	214208	Display and Operating Front Panel ABP216-1E/INT1	
	12	214008	Fire Detection Control Panel BC216-1/INT1	
	27	214108	Fire Detection Control Panel BC216-1CE/INT1	
	16	214308	Fire Detection Control Panel BC216-1S/INT1	
	72	252010	LED Display Tableau LAT288-1	
	72	252011	LED Display Tableau LAT288-1CE	
	73	252012	Remote Tableau Drive Unit PTU288-1	

214032 LED Display Field LAB48-3

The LED Display Field LAB48-3 contains 48 freely parameterisable double LEDs (24 pairs red/yellow, 24 pairs yellow/yellow) for the individual display of events of the detector zones, actuations, transmitting devices or alarming devices at Fire Detection Control Panels Series BC216 and of events of the flooding zones and extinguishing systems at the Extinguishing Control Panel Series LC216. The double LEDs are arranged in two rows each with 24 pairs.



In addition, the LED Display Field can be installed into an LED Display Tableau LAT288, that serves as a freely programmable display for the events of a Fire Detection Control Panel Series BC016 or BC216, as well as an Extinguishing Control Panel Series LC216.

Features

- ◆ 24 double LEDs (left hand side red, right hand side yellow), freely parameterisable according to individual events
- ◆ 24 double LEDs (yellow), freely parameterisable according to individual events
- ◆ Display of activation as well as deactivation or fault condition of the parameterised event
- ◆ Designation labels allow for individual marking of every double LED

Specifications

Current consumption at 24V	typ. 2mA no active LED, +0.25mA per LED
Ambient temperature	-5°C to +50°C
Dimensions L × W × H	176 × 120 × 15 (mm)
Weight	60g

Cross-references	Page	Art.Nr.	Name	Type
	23	214056	BCnet Sectional Control Panel/OP. BC216-2/INT1	
	33	214208	Display and Operating Front Panel ABP216-1E/INT1	
	12	214008	Fire Detection Control Panel BC216-1/INT1	
	27	214108	Fire Detection Control Panel BC216-1CE/INT1	
	16	214308	Fire Detection Control Panel BC216-1S/INT1	
	72	252010	LED Display Tableau LAT288-1	
	72	252011	LED Display Tableau LAT288-1CE	
	73	252012	Remote Tableau Drive Unit PTU288-1	

214036 LED Display Field LAB48-4

The LED Display Field LAB48-4 contains 48 freely parameterisable double LEDs (24 pairs red/yellow, 24 pairs green/yellow) for the individual display of events of the detector zones, actuations, transmitting devices or alarming devices at Fire Detection Control Panels Series BC216 and of events of the flooding zones and extinguishing systems at the Extinguishing Control Panel Series LC216. The double LEDs are arranged in two rows each with 24 pairs.



In addition, the LED Display Field can be installed into an LED Display Tableau LAT288, that serves as a freely programmable display for the events of a Fire Detection Control Panel Series BC016 or BC216, as well as an Extinguishing Control Panel Series LC216.

Features

- ◆ 24 double LEDs (left hand side red, right hand side yellow), freely parameterisable according to individual events
- ◆ 24 double LEDs (left hand side green, right hand side yellow), freely parameterisable according to individual events
- ◆ Display of activation as well as deactivation or fault condition of the parameterised event
- ◆ Designation labels allow for individual marking of every double LED

Specifications

Current consumption at 24V	typ. 2mA no active LED, +0.25mA per LED
Ambient temperature	-5°C to +50°C
Dimensions L × W × H	176 × 120 × 15 (mm)
Weight	60g

Cross-references	Page	Art.Nr.	Name	Type
	23	214056	BCnet Sectional Control Panel/OP. BC216-2/INT1	
	33	214208	Display and Operating Front Panel ABP216-1E/INT1	
	12	214008	Fire Detection Control Panel BC216-1/INT1	
	27	214108	Fire Detection Control Panel BC216-1CE/INT1	
	16	214308	Fire Detection Control Panel BC216-1S/INT1	
	72	252010	LED Display Tableau LAT288-1	
	72	252011	LED Display Tableau LAT288-1CE	
	73	252012	Remote Tableau Drive Unit PTU288-1	

214031 Network Redundant Alarm Converter NNU5-1

The Network Redundant Alarm Converter NNU5-1 analyses the data on the BCnet redundant alarm line which runs in addition to the GSSnet line, and transmits an alarm message to the designated transmitting and alarming device even at multiple line failure in the GSSnet or at system failure of a BCnet sectional control panel (redundant alarm). The NNU5-1 is installed in the BCnet sectional control panel that is connected to the transmitting device to the fire brigade.



Features

- ◆ Meets the requirements of ÖNORM F3000 concerning redundancy
- ◆ Line-monitored BCnet circular redundant alarm line

- ◆ Surveilles up to 126 BCnet members of a decentralised Fire Detection Control Panel BCnet216

Specifications

Current consumption at 24V	typ. 4mA
BCnet redundant alarm line	2-core circular line
Line resistance	max. 1000Ω
Ambient temperature	-5°C to +50°C
Dimensions L × W × H	75 × 40 × 15 (mm)
Weight	40g

Cross-references	Page	Art.Nr.	Name	Type
	29	214105	BCnet Sectional Control Panel/No Op. BC216-3CE	
	25	214005	BCnet Sectional Control Panel/No Operation BC216-3	
	23	214056	BCnet Sectional Control Panel/OP. BC216-2/INT1	
	30	2149997	BCnet Sectional Control Panel/OP. BC216-2EPS	
	36	214022	Fire Brigade Interface FWI2-1	
	27	214108	Fire Detection Control Panel BC216-1CE/INT1	

214003 Auxiliary Case for BC216 GEH216-4

Wall-mount cabinet made of powder coated sheet steel for stand-by batteries and/or auxiliary modules as supplement to Fire Detection Control Panels Series BC216 in standard wall-mount cabinets.



The cabinet is prepared for the installation of

- ◆ Two stand-by batteries 12V/max. 22Ah (at the cabinet bottom) and 4 Mounting Brackets BW216-1 for auxiliary modules, or
- ◆ Four stand-by batteries 12V/max. 22Ah (two batteries at the cabinet bottom, two batteries in an optional Battery Bracket BK216-1) and a Mounting Bracket BW216-1 for auxiliary modules.

Specifications

Dimensions W × H × D	420 × 520 × 120 (mm)
Colour	grey white, RAL 9002
Net weight	6.4kg

Cross-references	Page	Art.Nr.	Name	Type
	41	214028	Battery Bracket BK216-1	
	25	214005	BCnet Sectional Control Panel/No Operation BC216-3	
	23	214056	BCnet Sectional Control Panel/OP. BC216-2/INT1	
	12	214008	Fire Detection Control Panel BC216-1/INT1	
	16	214308	Fire Detection Control Panel BC216-1S/INT1	
	42	214029	Mounting Bracket BW216-1	
	287	310002	Stand-by Battery 12V/18Ah	

214130 Terminal Set/CE AKS216-1

The terminal set is used in a 19" cabinet with a Fire Detection Control Panel BC216-xCE and allows for the relocation of the terminals between fire detection control panel and the outbound lines. It includes terminals for the 230VAC supply and the power unit outputs as well as a pre-assembled cable harness of 1.7m length.

Cross-references	Page	Art.Nr.	Name	Type
	29	214105	BCnet Sectional Control Panel/No Op. BC216-3CE	
	27	214108	Fire Detection Control Panel BC216-1CE/INT1	

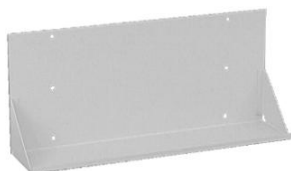
214232 Terminal Set/E AKS216-2

The terminal set is used in a 19" cabinet with a Fire Detection Control Panel BC216-2EPS and allows for the relocation of the terminals between fire detection control panel and the outgoing lines. It includes terminals for the 230VAC supply and the power unit outputs and the outputs of the first fire detection control panel module as well as a pre-assembled cable harness of 1.7m length.

Cross-references	Page	Art.Nr.	Name	Type
	30	2149997	BCnet Sectional Control Panel/OP. BC216-2EPS	

214028 Battery Bracket BK216-1

The Battery Bracket BK216-1 allows for the installation of 2 stand-by batteries 12V/max. 22Ah in the Auxiliary Case GEH216-4.

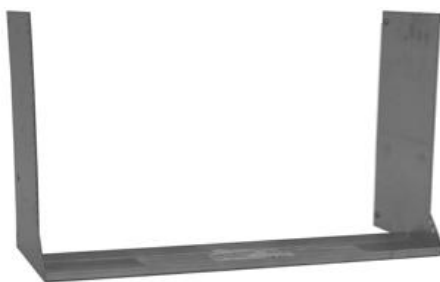
Specifications

Dimensions W × H × D	380 × 175 × 90 (mm)
Material	powder coated sheet steel
Colour	grey white, RAL 9002
Weight	approx. 900g

Cross-references	Page	Art.Nr.	Name	Type
	40	214003	Auxiliary Case for BC216 GEH216-4	
	287	310002	Stand-by Battery 12V/18Ah	

214128 Battery Bracket BK216-1CE

The Battery Bracket BK216-1CE allows for the installation of 2 stand-by batteries 12V/max. 22Ah and auxiliary modules (e.g., 2 Relay Modules RL58-1 or RL58-2, or 2 Siren Connection Modules SZ58-3) at the back side of the Fire Detection Control Panels BC216-1CE and BC216-3CE.

Specifications

Dimensions W × H × D	437 × 175 × 90 (mm)
Complete Control Panel BC216-xCE with battery bracket:	
Dimensions W × H × D	478 × 266 × 181 (mm)
Material	zinc coated sheet steel
Weight	approx. 950g

Cross-references	Page	Art.Nr.	Name	Type
	29	214105	BCnet Sectional Control Panel/No Op. BC216-3CE	
	27	214108	Fire Detection Control Panel BC216-1CE/INT1	
	287	310002	Stand-by Battery 12V/18Ah	

214029 Mounting Bracket BW216-1

The Mounting Bracket BW216-1 is made of zinc coated sheet steel and provides mounting holes in LST standard grid. It allows for easy mounting of auxiliary modules (e.g., 4 Relay Modules RL58-1 or RL58-2, or 4 Siren Connection Modules SZ58-3) in the Auxiliary Case GEH216-4.



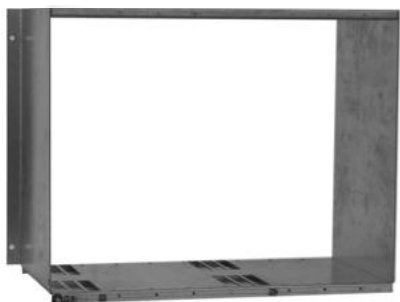
Specifications

Dimensions W × H × D 380 × 20 × 100 (mm)
 Net weight 340g

Cross-references	Page	Art.Nr.	Name	Type
	40	214003	Auxiliary Case for BC216 GEH216-4	
	50	223009	Control Zone Module SLM1-2	
	102	249095	Multi Module/Panel-Mounting MEA244-1/E	
	63	222010	Relay Module 4-Fold/230V AC RL58-2	
	62	222004	Relay Module 8-Fold/60VDC RL58-1	
	61	223024	Siren Connection Module SZ58-2	

214230 Control Panel Rack/8HU RACK216-1E

The Control Panel Rack/8HU RACK216-1E serves as a mounting frame and allows for the installation of a maximum of



- ◆ 7 Fire Detection Control Panel Modules BCM216-3E or BCM216-3ELG, or
- ◆ 1 Fire Detection Control Panel Module with power supply BCM216-3EPS and 6 Fire Detection Control Panel Modules BCM216-3E or BCM216-3ELG, or
- ◆ 2 Fire Detection Control Panel Modules with power supply BCM216-3EPS and 4 Fire Detection Control Panel Modules BCM216-3E or BCM216-3ELG.

The rack is normally installed on the back plate of a 19" wall-mount cabinet or 19" floor type cabinet; the modules are wired in the enclosed cable channel.

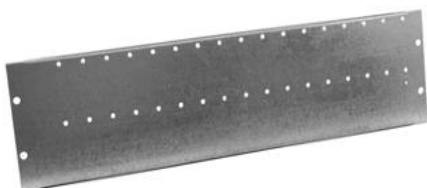
Specifications

Dimensions W × H × D 478 × 355 × 244 (mm)
 incl. cable channel: H = approx. 400mm
 Material zinc coated sheet steel
 Weight approx. 4.4kg

Cross-references	Page	Art.Nr.	Name	Type
	32	214234	Fire Detection Control Panel Module/LG BCM216-3ELG	
	31	214204	Fire Detection Control Panel Module/PS BCM216-3EPS	
	32	214205	Fire Detection Control Panel Module BCM216-3E	

212034 Module Carrier 19"/3HU MPL17/3

19" mounting plate of 3 height units for 19" cabinets with mounting holes in standardised LST grid for the mounting of auxiliary modules. The module carrier can hold, for instance, 17 Isolator Modules ISM1-x, 4 Relay Modules RL58-1 or RL58-2, 4 Siren Connection Modules SZ58-2 or SZ58-3, or 2 Multi Modules MEA244-1/E, respectively.



Specifications

Dimensions W × H × D	478 × 133 (3 height units) × 10 (mm)
Colour	zinc coated steel sheet
Weight	approx. 400g

Cross-references	Page	Art.Nr.	Name	Type
	45	212027	Cabinet 19"/18HU GEH19/18	
	64	229008	Flat Cable 1700mm/10-Pole FBK17-1	

212030 Dummy Cover 19"/2HU AD8C-2H

Powder-coated 19" front panel of 2 height units for covering non-populated pivoting frame areas of a 19" cabinet.

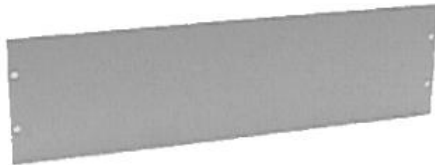
Specifications

Dimensions W × H × D	478 × 89 (2 height units) × 3 (mm)
Colour	grey white, RAL 9002
Weight	approx. 350g

Cross-references	Page	Art.Nr.	Name	Type
	45	212027	Cabinet 19"/18HU GEH19/18	

212029 Dummy Cover 19"/3HU AD8C-3H

Powder-coated 19" front panel of 3 height units for covering non-populated pivoting frame areas of a 19" cabinet.

Specifications

Dimensions W × H × D	478 × 133 (3 height units) × 3 (mm)
Colour	grey white, RAL 9002
Weight	approx. 500g

Cross-references	Page	Art.Nr.	Name	Type
	45	212027	Cabinet 19"/18HU GEH19/18	

212033 Dummy Cover 19"/6HU AD8C-6H

Powder-coated 19" front panel of 6 height units for covering non-populated pivoting frame areas of a 19" cabinet.



Specifications

Dimensions W × H × D 478 × 266 (6 height units) × 15 (mm)
 Mounting thicken. of front panel 3mm
 Colour grey white, RAL 9002
 Weight approx. 800g

Cross-references	Page	Art.Nr.	Name	Type
	45	212027	Cabinet 19"/18HU GEH19/18	

214129 Decoration Foil for BC216-3CE FF216-3CE

Self-adhesive foil to adjust the colour of the BC216-3CE control panel front (by default in grey white RAL 9002) to the front foil of the BC216-1CE (light grey RAL 7035).

Specifications

Dimensions W × H × D 478 × 266 × 1 (mm)
 Colour light grey, RAL 7035
 Weight approx. 30g

Cross-references	Page	Art.Nr.	Name	Type
	29	214105	BCnet Sectional Control Panel/No Op. BC216-3CE	
	43	212033	Dummy Cover 19"/6HU AD8C-6H	

212031 Mounting Kit 19"/3HU EW8C-E

Sheet steel mounting kit designed as 19" slide-in unit with 3 height units. Allows for the assembly of stand-by batteries (max. 2 × 12V/45Ah or 1 × 12V/65Ah).



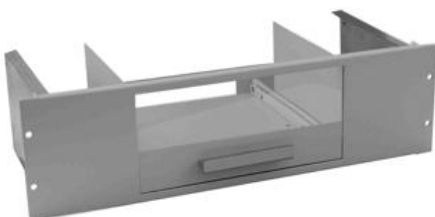
Specifications

Dimensions W × H × D 478 × 133 (3 height units) × 200 (mm)
 Mounting thicken. of front panel 3mm
 Colour (frontal view) grey white, RAL 9002
 Weight 2kg

Cross-references	Page	Art.Nr.	Name	Type
	45	212027	Cabinet 19"/18HU GEH19/18	
	289	310004	Stand-by Battery 12V/45Ah	
	289	310005	Stand-by Battery 12V/65Ah	

227009 Kit 19"/3HU for Printer DPU414 DPU2-1E

The mounting kit allows for the quick and easy mounting of a Protocol Printer DPU414 into a control panel that is integrated in a 19" cabinet. The mounting kit is designed as a 19" slide-in unit with 3 height units and it includes a drawer to accommodate the Protocol Printer DPU414. The slide-in unit also provides space for the appropriate AC adapter PW4007-E1.



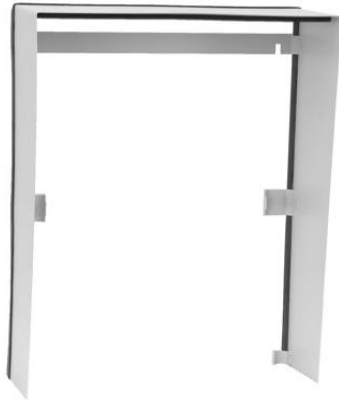
Specifications

Dimensions W × H × D	478 × 133 × 200 (mm)
Colour (front view)	grey white, RAL 9002
Weight	2kg

Cross-references	Page	Art.Nr.	Name	Type
	45	212027	Cabinet 19"/18HU GEH19/18	
	65	227003	Protocol Printer/Thermal DPU414-30B	

214601 Cover IP54 for BC216 GEH-IP54-BC-1/D1

Cover made of powder coated steel sheet for increasing the protection class of Fire Detection Control Panels BC216-1, BC216-1S, BC216-2 and BC216-3 to IP54.

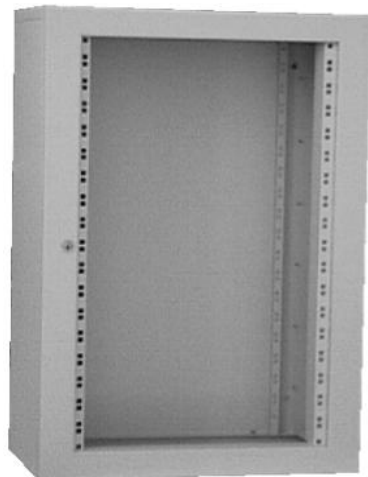
Specifications

Dimensions W × H × D	430 × 540 × 165 (mm)
Material	powder coated steel sheet 1.5mm
Colour	grey white, RAL 9002
Weight	approx. 3.1kg

Cross-references	Page	Art.Nr.	Name	Type
	25	214005	BCnet Sectional Control Panel/No Operation BC216-3	
	23	214056	BCnet Sectional Control Panel/OP. BC216-2/INT1	
	12	214008	Fire Detection Control Panel BC216-1/INT1	
	16	214308	Fire Detection Control Panel BC216-1S/INT1	

212027 Cabinet 19"/18HU GEH19/18

19" wall-mount cabinet in robust sheet steel design with pivoting frame of 18 height units for housing equipment in 19" design, e.g., a Fire Detection Control Panel Series BC216 in slide-in technology.

Features

- ◆ Pivoting frame of 18 height units and an aperture angle of 105°
- ◆ Integrated back wall 19" grid for additional system components
- ◆ Removable flange covers for cable entry on top and bottom sides of the cabinet
- ◆ Mounting rails for additional components

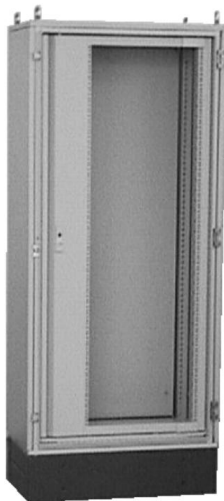
Specifications

Dimensions W × H × D	620 × 920 × 350 (mm)
Colour	grey white, RAL 9002
Weight	approx. 30kg

212028

Housing 19"/36HU GEH19/STAND

19" housing in robust steel sheet design with integrated 36 height units pivoting frame. The housing is suitable for installing devices in 19" design, e.g., a Fire Detection Control Panel Series BC216.



Features

- ◆ Pivoting frame with 36 height units and an aperture angle of 120°
- ◆ Side walls, back wall and top cover removable
- ◆ Mounting rails for additional components
- ◆ Side-by-side mounting with or without side wall
- ◆ Cable duct
- ◆ Built-in lighting
- ◆ Mounting plate
- ◆ 10cm or 20cm base optional

Specifications

Dimensions W × H × D	without base: 800 × 1800 × 500 (mm)
Colour	light grey, RAL 7035
Weight	approx. 150kg

212032

Transparent Door 19"/36HU SIT19/STAND

Transparent door for Housing 19"/36HU GEH19/STAND, with acrylic glass pane, double-bit insert for closure and mounting accessories.

Features

- ◆ Frame made of aluminium profiles
- ◆ Locking rod with double-bit insert
- ◆ equipped with 180° hinges as standard
- ◆ Exchangeable 3mm thick acrylic glass pane
- ◆ Special sealing for protection class increase of housing equipped with transparent door

Specifications

Dimensions W × H × D	800 × 1800 × 40 (mm)
Colour (frame)	light grey, RAL 7035
Protection class (housing + door)	IP54

4

Extinguishing System Controls

2189990

Extinguishing Control Panel Series LC216, Description

The Extinguishing Control Panel Series LC216 is an extended Fire Detection Control Panel BC216 with electrical control equipment for extinguishing systems. All functions of the fire detection control panel remain intact after the extension. A combined use as fire detection and extinguishing control panel is possible without further options.

The Extinguishing Control Panel Family Series LC216 includes the following types of control panels:

- ♦ The Extinguishing Control Panel LC216-1 for an extinguishing system with one flooding zone according to EN 12094-1 or with up to 8 flooding zones without compliance with EN 12094-1.
- ♦ The networked Extinguishing Control Panel LCnet216 with up to 127 extinguishing systems. The Control Panel LCnet216 consists of several sectional control panels, which are interconnected via the Global Security System Network GSSnet and thereby form a decentralised extinguishing system. Each extinguishing system can control up to 32 flooding zones, and each LCnet sectional control panel is able to administrate up to 8 flooding zones. A maximum of 127 flooding zones can be controlled by the networked Extinguishing Control Panel LCnet216.

The Extinguishing Control Panel Series LC216 fulfils all compulsory requirements and the options for highest safety demands according to EN 12094-1, EN 54-2, EN 54-4 and is VdS certified. The networked Extinguishing Control Panel LCnet216 can be easily implemented with a redundant design of the extinguishing system control, which is required if several flooding zones are to be actuated from one sectional control panel. In this case, 2 LCnet sectional control panels are identically parameterised at a time and all inputs, outputs and ADM loops of the extinguishing system are interconnected. The redundant sectional control panel is normally passive and only takes over the function of the active sectional control panel in case of its failure.

The function of the extinguishing control panel is enabled in the LC216-1 or LCnet sectional control panels once an options circuit with the correct setting is installed. The options circuit is part of the Extinguishing Control/8-Area Licence LC216-8LB.

The parameterisation of the Extinguishing Control Panel Series LC216 can be most easily accomplished via PC by means of the Windows parameter setup software PARSOFT. The clear user interface allows an almost self-explanatory definition of system configurations and thereby minimises the requirement for training. Entered parameters are loaded into the control panel after automatic verification. In case of redundant extinguishing control panels, PARSOFT guarantees the synchronisation of parameters from active and redundant LCnet sectional control panels.

Specifications

see description of BC216-1, the BCnet sectional control panels and of the fire detection control panel modules

Approvals

VdS G206046 (as extinguishing control panel only)

VdS G206089 (as combined fire detection and extinguishing control panel)

218024

Extinguishing Control/8-Area License LC216-8LB

License for extinguishing control panel for the administration of up to 8 flooding zones at the Fire Detection Control Panel Series BC216. This license allows you to manage up to 8 flooding zones on one control panel or sectional control panel. Setup of the required parameters is accomplished using PARSOFT-1 or PARSOFT-2. The functions are specifically adapted to the requirements of EN 12094-1.

If the system size or country specific regulations require redundant operation of the extinguishing control panels, additional licenses are required for the redundant control panels.

Each sectional control panel that is used for extinguishing control in the network requires a license.

Note: the Extinguishing Control Panel Series LC216 can only be operated on a central processing board ZTB216-2 **with at least hardware version V4**. The type of the board is printed on a label. The version number is the last digit of the PCB version, that is printed in the left bottom corner of the PCB (e.g., PN5233S4 for V4). Furthermore, a firmware version PL149 Vx.20 or newer and a PARSOFT version V1.20 or newer are required for the operation and the setup of the extinguishing control panel, respectively.

Specifications

Approvals

VdS G206046 (as pure extinguishing control panel)
VdS G206089 (as combined fire detection and extinguishing control panel)

Cross-references	Page	Art.Nr.	Name	Type
	29	214105	BCnet Sectional Control Panel/No Op. BC216-3CE	
	25	214005	BCnet Sectional Control Panel/No Operation BC216-3	
	23	214056	BCnet Sectional Control Panel/OP. BC216-2/INT1	
	12	214008	Fire Detection Control Panel BC216-1/INT1	
	27	214108	Fire Detection Control Panel BC216-1CE/INT1	
	31	214204	Fire Detection Control Panel Module/PS BCM216-3EPS	
	32	214205	Fire Detection Control Panel Module BCM216-3E	
	103	249090	Limit Switch/Anal./500/SS EDS500-1	
	101	249092	Multi Module/Mounting Rail MEA244-1/TR	
	295	218008	Parameter Setup Software PARSOFT-2	

2189991

Extinguishing Control Function Series BC06, Description

In the basic version, the Fire Detection Control Panel Series BC06 is equipped with 4 conventional detector lines. Automatic and non-automatic fire detectors as well as numerous special detectors with contact output can be connected.

The control panel provides a mounting position for extension modules for installation of either the Zone Extension Board ZEB2-1 or the Extinguishing Board EXB1-1. The Fire Detection Control Panel Series BC06 can be used as extinguishing control panel according to EN 12094-1 for one flooding zone in combination with the Extinguishing Board EXB1-1.

In combination with the extinguishing module, the control panel provides suitable inputs and outputs for actuation and monitoring of the following components of the extinguishing system:

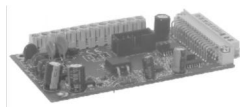
- ◆ Input for activation devices (for manual activation of the extinguishing system)
- ◆ Input for emergency hold devices (delaying the flooding process)
- ◆ Input for fault detectors (e.g., monitoring the pressure of the extinguishing agent)
- ◆ Input to switch into manual only mode
- ◆ Output for signalling devices to display activated condition (e.g., sirens, warning signs)
- ◆ Output for signalling devices to display released condition (e.g., sirens, warning signs)
- ◆ Extinguishing output for the line monitored actuation of an activation device for extinguishing medium (e.g., solenoid valve).

The practical factory settings enable an easy commissioning of the extinguishing control panel. The required functions of the extinguishing system and the delay times for the flooding process are set during commissioning, depending on the employed extinguishing agent (gas, water, etc.) and on country-specific regulations.

The Fire Detection Control Panel BC06 fulfils, in combination with the Extinguishing Board EXB1-1, all compulsory functions and the most important options according to EN 12094-1. The control panel is tested according to EN 54-2, EN 54-4 and EN 12094-1 by VdS.

210216 Extinguishing Board BC06 EXB1-1

The Extinguishing Board EXB1-1 enables the design of small single-zone extinguishing systems. The general parameters of the flooding zone (e.g., pre-discharge warning time, flooding time, connection of detector zone(s) for activation of extinguishing output) can be set.



Features

- ◆ Zone input for activation devices (for manual activation of the flooding process)
- ◆ Zone input for emergency hold devices (for manual delay of the extinguishing process)
- ◆ Input for fault detectors (e.g., for monitoring the weight and/or pressure of the extinguishing agent)
- ◆ A monitored and permanently short-circuit protected extinguishing output (max. 1A)
- ◆ A monitored, short-circuit proof output, signalling the activated condition (max. 0.5A)
- ◆ A monitored, short-circuit proof output, signalling the released condition (max. 0.5A)
- ◆ 8 open collector outputs, providing the conditions of the extinguishing module if further control tasks are required
- ◆ All inputs and the three monitored outputs are available on screw terminals, the open collector outputs are available on a flat cable connector

Specifications

Current consumption at 24V (quiescent)

typ. 13mA (in- and outputs terminated with 5.6kOhm, extinguishing output terminated with 56Ohm)

Extinguishing output

max. continuous current 1A

Output activated condition

max. continuous current 0.5A

Output released condition

max. continuous current 0.5A

Ambient temperature

-5°C to +50°C

Dimensions L × W × H

103 × 58 × 15 (mm)

Weight

50g

Approval

tested to EN 12094-1 by VdS

Cross-references	Page	Art.Nr.	Name	Type
	1	210205	Fire Detection Control Panel BC06-1/INT1	
	3	210209	Fire Detection Control Panel BC06-2/INT1	

222011 Extinguishing System Interface LSS1000-1

Componentry used for the reactionless connection of an extinguishing system to a fire detection control panel. The componentry can be installed in Fire Detection Control Panels Series BC216, Series BC016, BC06, LBC1000 and LBC32.



Features

- ◆ Extinguishing system control according to VdS specifications
- ◆ System-neutral design for all extinguishing systems
- ◆ Processing logic for the actuation and confirmation of the extinguishing system

Specifications

Operating voltage

20 to 31VDC

Current consumption at 24VDC

0mA (quiescent)

20mA (active)

Ambient temperature

-5°C to +50°C

Dimensions L × W × H

70 × 45 × 20 (mm)

Weight

50g

223009 Control Zone Module SLM1-2

Componentry for the installation in Fire Detection Control Panels Series BC216, Series BC016, Series BC06 or Series LBC, which allows for the line-monitored triggering of external devices with increased current demand (e.g., signalling devices, solenoid valves).

Features

- ◆ Hardware-controlled activation via control line
- ◆ Activation delay can be set from 0 to 90 seconds.
- ◆ Electronically limited load current
- ◆ Line-monitored output with fault reporting

Specifications

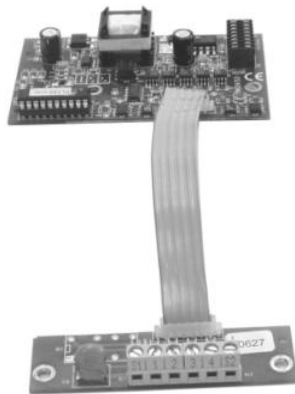
Operating voltage	20 to 31 VDC
Current consumption at 24V	30mA (quiescent)
Load current	max. 1.4A
Monitoring voltage	-1.2V
End-of-line resistor	5.6k Ω
Activation delay	0 to 90s
Ambient temperature	-5°C to +50°C
Dimensions L \times W \times H	75 \times 75 \times 30 (mm)
Weight	120g

Cross-references	Page	Art.Nr.	Name	Type
	29	214105	BCnet Sectional Control Panel/No Op. BC216-3CE	
	25	214005	BCnet Sectional Control Panel/No Operation BC216-3	
	23	214056	BCnet Sectional Control Panel/OP. BC216-2/INT1	
	7	210122	Fire and Evacuation Panel BC016-2/INT1	
	6	210102	Fire Detection Control Panel BC016-1/INT1	
	1	210205	Fire Detection Control Panel BC06-1/INT1	
	3	210209	Fire Detection Control Panel BC06-2/INT1	
	12	214008	Fire Detection Control Panel BC216-1/INT1	
	27	214108	Fire Detection Control Panel BC216-1CE/INT1	
	16	214308	Fire Detection Control Panel BC216-1S/INT1	
	31	214204	Fire Detection Control Panel Module/PS BCM216-3EPS	
	32	214205	Fire Detection Control Panel Module BCM216-3E	

5 Interfaces

214033 Network Interface Module NIF5-1M

The Network Interface Module NIF5-1M allows for the connection of BCnet sectional control panels of a Fire Detection Control Panel BCnet216 or other GSSnet members to the Global Security System network GSSnet, it is installed in all BCnet sectional control panels by default. The componentry is required to upgrade a 19" Compact Control Panel BC216-1CE to a BCnet sectional control panel.



Note: the Network Interface Module NIF5-1M can only be operated with a central processing board ZTB216-2. The type of the board is printed on a label.

Features

- ◆ Galvanically isolated RS485 interface

Specifications

Current consumption at 24V	typ. 25mA
Cable length between two NIF5-1	max. 1200m
Connection type	Screw terminals
Ambient temperature	-5°C to +50°C
Dimensions L × W × H	95 × 70 × 25 (mm)
Weight	50g

Cross-references	Page	Art.Nr.	Name	Type
	27	214108	Fire Detection Control Panel BC216-1CE/INT1	
	20	2199998	Fire Detection Control Panel BCnet216, Description	

214027 Network Cable NWK2-1

Network cable – 4×2×AWG24/1 S/FTP, category 5, twisted pair – for the connection of GSSnet members (e.g., of BCnet sectional control panels which form a decentral Fire Detection Control Panel BCnet216) in the Global Security System network GSSnet.

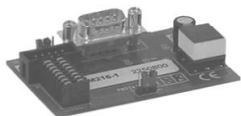
Specifications

Loop resistance	max. 16.8Ω/100m at 20°C
Operating capacitance	4.9nF/100m at 1kHz
Capacitance interference	max. 59pF at 1MHz to 200MHz
Impedance	100 ± 15Ω at 1kHz
Attenuation (50MHz)	max. 14dB/100m
Outer coat	FR-PVC/FR-I,SØH
Outer diameter	6.5mm
Min. bend radius	52mm
Max. tensile strength	25kg
Core diameter	0.51mm
Shield	Al-polyester foil + Cu-braid shield
Weight	51kg/km
Temperature range	-20°C to +75°C
Colour	grey, RAL 7032

Cross-references	Page	Art.Nr.	Name	Type
	20	2199998	Fire Detection Control Panel BCnet216, Description	

214025 Serial Interface Module SIM216-1

The Serial Interface Module SIM216-1 allows for the extension of a Fire Detection Control Panel Series BC216 or Series BC016 with a galvanically isolated RS232C interface for the connection of devices with serial data transfer (e.g., a remote serial protocol printer, a PC).



Specifications

Current consumption at 24V	typ. 10mA
Interface	RS232C, galvanically isolated, up to 57.6kBaud
Signal lines	RxD, TxD, CTS/DTR
Connection type	D-SUB plug, 9-pole
Ambient temperature	-5°C to +50°C
Dimensions L × W × H	70 × 45 × 20 (mm)
Weight	50g

Cross-references	Page	Art.Nr.	Name	Type
	29	214105	BCnet Sectional Control Panel/No Op. BC216-3CE	
	25	214005	BCnet Sectional Control Panel/No Operation BC216-3	
	23	214056	BCnet Sectional Control Panel/OP. BC216-2/INT1	
	7	210122	Fire and Evacuation Panel BC016-2/INT1	
	6	210102	Fire Detection Control Panel BC016-1/INT1	
	12	214008	Fire Detection Control Panel BC216-1/INT1	
	27	214108	Fire Detection Control Panel BC216-1CE/INT1	
	16	214308	Fire Detection Control Panel BC216-1S/INT1	

214231 Interface Adapter Module IAM216-1E

The Interface Adapter Module IAM216-1E allows for the extension of a Fire Detection Control Panel Module BCM216-3EPS or BCM216-3E with a galvanically isolated RS232C interface for the connection of devices with serial data transfer (e.g., a remote serial protocol printer, a PC). The functional unit consists of a Serial Interface Module SIM216-1 and an adapter board with flat cable for relocating the D-SUB plug of the SIM216-1 to the connection surface of the fire detection control panel modules.



Specifications

Current consumption at 24V	typ. 10mA
Interface	RS232C, galvanically isolated, up to 57.6kBaud
Signal lines	RxD, TxD, CTS/DTR
Connection type	D-SUB plug, 9-pole
Ambient temperature	-5°C to +50°C
Dimensions L × W × H	SIM216-1: 70 × 45 × 20 (mm) adapter board: 73 × 34 × 22 (mm)
Weight	70g

Cross-references	Page	Art.Nr.	Name	Type
	31	214204	Fire Detection Control Panel Module/PS BCM216-3EPS	

223025 Ethernet Module ENM2-1

The Ethernet Module ENM2-1 is used to convert the setup data, which is transmitted via the Serial Interface Module SIM216-1, into an IP protocol. You can use the parameter setup software PARSOFT-1 or PARSOFT-2 to realise a convenient remote access to the Fire Detection Control Panel Series BC216 as well as Series BC016.



The Ethernet module is integrated into the customer's LAN by the customer's LAN supervisor like any member (e.g., PC, network printer). The Ethernet Module ENM2-1 is set up by means of the setup software ConfigENM2, which is included on the CD-ROM for the delivery of the parameter setup software PARSOFT-1 or

PARSOFT-2. The Ethernet module is contacted from the remote PARSOFT-PC via the specified IP address, when operating via PARSOFT-1 or PARSOFT-2 there is no difference between on-site and remote operation.

Features

- ◆ Operation in DHCP or BOOTP networks
- ◆ Operation with static or dynamic IP address
- ◆ Remote operation via LAN, WAN or Internet
- ◆ Status LED
- ◆ Pre-configured data line to SIM216-1 included, length 1.8m
- ◆ Pre-configured power supply line included, length 1.8m

Specifications

Supply voltage	21 to 30VDC
Current consumption at 24V	45mA
Ambient temperature	+5°C to +50°C
Relative humidity	max. 95% (no condensation)
Dimensions L × W × H	100 × 90 × 25 (mm)
Weight	150g

Cross-references	Page	Art.Nr.	Name	Type
	52	214231	Interface Adapter Module IAM216-1E	
	295	218008	Parameter Setup Software PARSOFT-2	
	52	214025	Serial Interface Module SIM216-1	

223027 Remote Access Module PSTN FZP2-1

The Remote Access Module FZP2-1 is designed for the transmission of configuration data of Fire Detection Control Panels Series BC016 or BC216 via an analogue telephone line. Remote access of control panels with parameter setup software PARSOFT-1 and PARSOFT-2 can be established in this way.



The serial interface of the module is connected to the Serial Interface Module SIM216-1 of the control panel via the provided cable. The telephone connection between the module and the telephone network (local loop or extension line) is established via the provided telephone cable with RJ11 connectors on both sides.

The device key of the module and the according telephone number of the telephone extension, where the Remote Access Module is connected, have to be entered in PARSOFT the first time a connection is established. These parameters are stored in the parameter file. The device key is placed on a label on the bottom side of the module.

Parameterisation and maintenance can be accomplished without limitations with PARSOFT, once control panel and PC are connected. There is no difference between local or remote access of the control panel.

Features

- ◆ Remote parameterisation and maintenance via analogue telephone line
- ◆ Status LED indicators for supply voltage and data transfer
- ◆ Includes pre-assembled serial data cable for SIM216-1, length approx. 1.8m
- ◆ Includes pre-assembled telephone cable, length approx. 2m
- ◆ Plug-in power adapter provided

Specifications

Operating voltage plug-in adapter	100 - 240VAC, 50 - 60Hz
Supply voltage FZP2-1	5VDC
Current consumption at 5V	max. 120mA
Transfer rate	38400Baud
Ambient temperature	0°C to +45°C
Dimensions L × W × H	85 × 40 × 25 (mm)
Weight without plug-in adapter	70g

Cross-references	Page	Art.Nr.	Name	Type
	52	214231	Interface Adapter Module IAM216-1E	
	295	218008	Parameter Setup Software PARSOFT-2	
	52	214025	Serial Interface Module SIM216-1	

223028 Remote Access Module GSM/GPRS FZG2-1

The Remote Access Module FZG2-1 is designed for the transmission of configuration data of Fire Detection Control Panel Series BC016 or BC216 via a GSM connection. Remote access of control panels with parameter setup software PARSOFT-1 and PARSOFT-2 can be established in this way.



The serial interface of the module is connected to the Serial Interface Module SIM216-1 of the control panel via the provided cable. The telephone connection between the module and the mobile phone network is established with the provided external antenna. The module has to be equipped with a SIM card activated for data transfer. The SIM-card is not provided.

The device key of the module and the mobile phone number of the integrated SIM-card have to be entered in PARSOFT, the first time a connection is established. These parameters are stored in the parameter file. The device key is placed on a label on the bottom side of the module.

Parameterisation and maintenance can be accomplished without limitations with PARSOFT, once control panel and PC are connected. There is no difference between local or remote access of the control panel.

Features

- ◆ Remote parameterisation and maintenance via a mobile phone network
- ◆ Status LED indicators for supply voltage and data transfer
- ◆ Includes pre-assembled serial data cable for SIM216-1, length approx. 1.8m
- ◆ Includes GSM antenna with magnetic base, cable length approx. 3m
- ◆ Plug-in power adapter provided

Specifications

Operating voltage plug-in adapter	100 - 240VAC, 50 - 60Hz
Supply voltage FZG2-1	5VDC
Current consumption at 5V	typ. 1A, max. 2A
Transfer rate	9600Baud
GSM interface	900 / 1800MHz
Ambient temperature	0°C to +45°C
Dimensions L × W × H	85 × 40 × 25 (mm)
Weight without plug-in adapter	70g

Cross-references	Page	Art.Nr.	Name	Type
	52	214231	Interface Adapter Module IAM216-1E	
	295	218008	Parameter Setup Software PARSOFT-2	

223041 SMS/E-Mail Transmitter Module SMS2-1/D1

The Transmitter Module SMS2-1/D1 can send SMS messages or e-mails to a maximum of 8 different users in order to provide a recipient with specific information.

The module can either receive event text messages from a Fire Detection Control Panel Series BC216 via serial ESPA data protocol and forward it without change, or it can transmit messages according to the parameterisation if the condition of one of the six inputs changes. In addition, the module contains 4 outputs that can be activated by SMS text messages for remotely controlling certain system functions. A GSM antenna, the serial connection cable to the control panel and the options circuit for activation of the ESPA interface on the control panel are provided together with the module. The required SIM card has to be provided by the customer.



The following parameters can be set:

- ◆ Events to be transmitted (alarm, fault, etc.)
- ◆ Transmission priority of events
- ◆ Transmission parameters of users (telephone number, e-mail address, disable time, etc.)
- ◆ Disable times or disable inputs for demand-orientated transmission to selected users
- ◆ System name

Please note: the Transmitter Module SMS2-1 can only be operated with a Central Processing Board ZTB216-2 using **hardware version V4 or newer versions**. The type of the central processing board can be found on a label. The version number is the last digit of the PCB version, which is printed in the left bottom corner of the printed circuit board (e.g., PN5233S4 for V4). For operation of the transmitter module, a firmware version **PL149 Vx.20 or higher** is required, for parameterisation a **PARSOFT version V1.20 or higher** is necessary.

Features

- ◆ Integrated web server with menu in German language
- ◆ Parameterisation via ethernet or dial-up connection
- ◆ RS232C interface, prepared for data transfer of event text messages from Fire Detection Control Panel Series BC216
- ◆ Six inputs, galvanically isolated
- ◆ Four outputs, galvanically isolated

Specifications

Operating voltage	10 - 29.5VDC
Current consumption at 24V	typ. 160mA, max. 330mA
Input voltage range	10 - 29.5VDC
Output voltage range	10 - 29.5VDC
Max. output voltage	0.5A per output
GSM-modem	900 / 1800MHz
Ethernet interface	RJ45, 10BaseT
Serial interface	RJ11, 9600Baud
Ambient temperature	-5°C to +50°C
Dimensions W × H × D	105 (6 module units) × 85 × 58 (mm)
Weight	225g

Cross-references	Page	Art.Nr.	Name	Type
	52	214231	Interface Adapter Module IAM216-1E	
	52	214025	Serial Interface Module SIM216-1	

223060 Gateway/IEC870-5-101/-104/BC216 IEC870-BC216-GW

The Gateway IEC870-BC216-GW serves as interface between the Fire Detection Control Panel Series BC216 and a primary control centre, according to the international interface standard IEC870-5-101 (RS232) or alternatively IEC870-5-104 (ethernet). For this purpose, the control panel has to be equipped with a ZLT interface (not provided).



On the one hand, events from the control panel can be transmitted to the primary control centre via the gateway, on the other hand, operations at the control panel can be performed depending on the parameterisation of the gateway.

The system-specific list of IEC data points and the assignment of detector zones have to be loaded into the gateway. This list can be easily created with the provided setup program (for Windows).

Please note: the IEC Gateway can only be operated with a Central Processing Board ZTB216-2 using **hardware version V4 or newer versions**. The type of the central processing board can be found on a label. The version number is the last digit of the PCB version, which is printed in the left bottom corner of the printed circuit board (e.g., PN5233S4 for V4). For operation of the gateway, a firmware version **PL149 Vx.20 or higher** is required, for parameterisation a **PARSOFT version V1.20 or higher** is necessary.

Features

- ◆ 4000 IEC data points free to define
- ◆ Transmission of events from the control panel
- ◆ Configurable functions for the operation of the control panel
- ◆ RS232C interface for data transfer to control panel
- ◆ RS232C interface for data transfer to IEC870-5-101 control centre
- ◆ Ethernet interface for data transfer to IEC870-5-104 control centre
- ◆ Individual setting of all IEC parameters using the setup program
- ◆ Separate status LED indicators for each interface
- ◆ To be mounted on a DIN rail

Specifications

Operating voltage	20 - 30VDC
Current consumption at 24V	typ. 125mA
Ambient temperature	-5°C to +50°C
Dimensions L × W × D	168 × 118 × 54 (mm)
Protection class	IP30
Weight	820g

Cross-references	Page	Art.Nr.	Name	Type
	52	214231	Interface Adapter Module IAM216-IE	
	52	214025	Serial Interface Module SIM216-1	
	58	218022	ZLT Interface License ZLT-SS	

223030 Long Distance Modem BCnet216 MOD-1

The Long Distance Modem BCnet216 MOD-1 allows you to extend the maximum distance between two sectional control panels of the Fire Detection Control Panel BCnet216 to up to 4000m.



The sectional control panels are connected through a telephone cable with at least 2 free wire pairs. Each sectional control panel requires a Long Distance Modem MOD-1 on both the incoming and outgoing side.

In this way, you can also bridge only individual sections of the high-security network, if required. The use of the long distance modem is furthermore recommended if no cabling with the minimum requirement of the Network Cable NWK2-1 can be provided by the customer.

Features

- ◆ Status LED for display of the data flow
- ◆ Automatic adaptation to the transfer rate of the GSSnet
- ◆ Easy DIN rail mounting
- ◆ Connection of the cables to terminals

Specifications

Supply voltage	21.6 to 26.4VDC
Current consumption at 24V	typ. 150mA
Line length	max. 4000m
Number of wires required	4
Cable diameter	min. 0.3mm ²
Line capacity	max. 42pF/m
Ambient temperature	+5°C to +50°C
Relative humidity	max. 95% (no condensation)
Dimensions W × H × D	75 × 129 × 169 (mm)
Weight	250g

Cross-references	Page	Art.Nr.	Name	Type
	20	2199998	Fire Detection Control Panel BCnet216, Description	
	294	229010	Voltage Stabiliser 24VDC STAB24-1	

223032**Multimode Fibre Gateway BCnet216 LWL-MM-2**

The gateway LWL-MM-2 interconnects sectional control panels of the Fire Detection Control Panel BCnet216 via multimode optical fibres. An optical fibre cable with at least 2 free multimode fibres is needed for the connection. If required, only specific sections of the high security network GSSnet can be interconnected in this way.



Each sectional control panel requires one gateway each for in- and output. The ends of multimode fibres have to be fit with an 'ST' connector (not provided) for optical fibres. A 5m long and already pre-assembled data cable is provided to enable an easy connection between the gateway and the Network Interface Module NIF5-1.

Features

- ◆ Status LED indicator to display data transfer
- ◆ All parameters to be set via a DIL switch
- ◆ Small dimensions
- ◆ To be mounted on a DIN rail

Specifications

Operating voltage	18 - 30VDC
Current consumption at 24V	typ. 200mA
Length of optical fibre	max. 4km with 62.5/125µm multimode fibre max. 3km with 50/125µm multimode fibre
Type of fibre	50µm or 62.5µm / 850nm
Optical budget	8dB
Ambient temperature	-10°C to +55°C
Dimensions W × H × D	61 × 115 × 113 (mm)
Weight	500g

Cross-references	Page	Art.Nr.	Name	Type
	20	2199998	Fire Detection Control Panel BCnet216, Description	

223033**Singlemode Fibre Gateway BCnet216 LWL-SM-2**

The gateway LWL-SM-2 interconnects sectional control panels of the Fire Detection Control Panel BCnet216 via singlemode optical fibres. An optical fibre cable with at least 2 free

singlemode fibres is needed for the connection. If required, only specific sections of the high security network GSSnet can be interconnected in this way.

Each sectional control panel requires one gateway each for in- and output. The ends of singlemode fibres have to be fit with an 'ST' connector (not provided) for optical fibres. A 5m long and already pre-assembled data cable is provided to enable an easy connection between the gateway and the Network Interface Module NIF5-1.

Features

- ◆ Status-LED indicator to display data transfer
- ◆ All parameters to be set via a DIL switch
- ◆ Small dimensions
- ◆ To be mounted on a DIN rail

Specifications

Operating voltage	18 - 30VDC
Current consumption at 24V	typ. 200mA
Length of optical fibre	max. 15km
Type of fibre	9/125µm / 1300nm
Optical budget	17dB
Ambient temperature	-10°C to +55°C
Dimensions W × H × D	61 × 115 × 113 (mm)
Weight	500g

Cross-references	Page	Art.Nr.	Name	Type
	20	2199998	Fire Detection Control Panel BCnet216, Description	

218022 ZLT Interface License ZLT-SS

ZLT interface license for the communication of Fire Detection Control Panels Series BC216 with superior alarm monitoring systems. According to requirements, the superior operation control system can display only the states of the fire detection control panel or additionally allow for the operation of zones, actuations, etc. The ZLT interface license is required in the sectional control panel that is connected to the operation control system.

Note: the ZLT Interface can only be operated on a central processing board ZTB216-2 **with at least hardware version V4**. The type of the board is printed on a label. The version number is the last digit of the PCB version, that is printed in the left bottom corner of the PCB (e.g., PN5233S4 for V4).

Cross-references	Page	Art.Nr.	Name	Type
	25	214005	BCnet Sectional Control Panel/No Operation BC216-3	
	23	214056	BCnet Sectional Control Panel/OP. BC216-2/INT1	
	12	214008	Fire Detection Control Panel BC216-1/INT1	
	27	214108	Fire Detection Control Panel BC216-1CE/INT1	
	31	214204	Fire Detection Control Panel Module/PS BCM216-3EPS	
	32	214205	Fire Detection Control Panel Module BCM216-3E	

218023 ESPA 4.4.4 Interface License ESPA-SS

ESPA interface license for the communication of Fire Detection Control Panels Series BC216 with pager systems, DECT systems, visual call systems, etc., which provide an ESPA 4.4.4 interface for the transmission of display texts. You can define the text length as well as the type of the messages (alarms, technical messages, etc.) for up to 2 receiver groups at the fire detection control panel. The ESPA interface license is required in the sectional control panel that is connected to the respective system.

Note: the ESPA interface can only be operated on a central processing board ZTB216-2 **with at least hardware version V4**. The type of the board is printed on a label. The version number is the last digit of the PCB version, that is printed in the left bottom corner of the PCB (e.g., PN5233S4 for V4). Furthermore, a firmware version PL149 Vx.20 or newer and a

PARSOFT version V1.20 or newer are required for the operation and the setup of the interface, respectively.

Cross-references	Page	Art.Nr.	Name	Type
	25	214005	BCnet Sectional Control Panel/No Operation BC216-3	
	23	214056	BCnet Sectional Control Panel/OP. BC216-2/INT1	
	12	214008	Fire Detection Control Panel BC216-1/INT1	
	27	214108	Fire Detection Control Panel BC216-1CE/INT1	
	31	214204	Fire Detection Control Panel Module/PS BCM216-3EPS	
	32	214205	Fire Detection Control Panel Module BCM216-3E	

214176

BCnet-LBC Gateway/N.OP./6HU BCNET-LBC-GW

The BCnet-LBC Gateway allows for the integration of an LBC Fire Detection Control Panel or the main control panel of an LBC Control Panel Compound into the Global Security System network GSSnet of a Fire Detection Control Panel BCnet216. The LBC Fire Detection



Control Panel is connected to the RS232C interface of the BCnet-LBC Gateway which deals with the conversion between the LBC data protocol and the GSSnet data protocol. Therewith, the detector zones, actuations, alarming devices and transmitting devices connected to the LBC Fire Detection Control Panel can be displayed and operated by the superior Fire Detection Control Panel BCnet216 the same way as those from the

BCnet216. This way, up to 9700 detector zones as well as 9700 actuations can be combined in a conjoint fire detection control panel.

The BCnet-LBC Gateway already includes the basic license for the integration of the LBC1000 main control panel. If further sub control panels exist in the LBC Fire Detection Control Panel, the additionally required LBC Sub-Unit Licenses LBC-UZ have to be ordered separately.

The LBC texts can be conveniently and efficiently imported from the *.It files of the LBC setup by using PARSOFT-2. So, in the event of an alarm or fault, the detector text of the LBC detectors is displayed on the display and operating field of the BCnet216 members.

The BCnet-LBC Gateway is designed as BCnet sectional control panel in 19" slide-in technology with 6 height units without display and operating field ("Black Box" control panel).

The BCnet-LBC Gateway allows for the installation of up to 2 Conventional Detector Interfaces GIF8-1 for the connection of optional redundant alarm lines to the LBC control panels or conventional detector lines, but no loop Interfaces LIF64-1.

The extensive functions and features are summarised in the description of the Fire Detection Control Panel BCnet216, No. 2199998.

Specifications

Mains voltage	230VAC +10/-15%, 50Hz
Connection power	60VA
Output voltage	typ. 28VDC
Output peak current	max. 1.8A
Connection of external devices	typ. 0.8A, site-specific
Current consumption at 24V	typ. 90mA (without optional componentries)
Ambient temperature	-5°C to +50°C
Dimensions W × H × D	478 × 266 (6 height units) × 95 (mm)
Colour	grey white, RAL 9002
Weight without batteries	approx. 6kg

Cross-references	Page	Art.Nr.	Name	Type
	20	2199998	Fire Detection Control Panel BCnet216, Description	

218021 LBC Sub-Unit License LBC-UZ

License for a sub control panel for the integration of an LBC sub control panel (LBC1000 or LBC32) into the Global Security System network GSSnet. The license must be ordered together with the BCnet-LBC Gateway.

Cross-references	Page	Art.Nr.	Name	Type
	59	214176	BCnet-LBC Gateway/N.OP./6HU BCNET-LBC-GW	

219010 Programming Cable BC216/RS232 PK216-1

Cable for connecting a COM interface of a PC with the Serial Interface Module SIM216-1 of a Fire Detection Control Panel of Series BC216.

Specifications

Cable length 1.8m
 Connection type 9-pole D-SUB socket on both sides

Cross-references	Page	Art.Nr.	Name	Type
	52	214231	Interface Adapter Module IAM216-1E	
	295	218008	Parameter Setup Software PARSOFT-2	
	52	214025	Serial Interface Module SIM216-1	

6

Additional Modules for Fire Detection Control Panels

223024

Siren Connection Module SZ58-2

The Siren Connection Module SZ58-2 is installed particularly in Fire Detection Control Panels Series LBC to allow for the connection of acoustic signalling devices (e.g., sirens) to two separately controlled line-monitored electric circuits. The signalling devices can be supplied either directly by the fire detection control panel or, at increased current demand, by an external power supply.



Features

- ◆ Connection to a monitored siren output of the fire detection control panel
- ◆ Activation via selectable detector zone outputs
- ◆ Activation via an external switch
- ◆ Surveilled voltage at external and internal supply of the signalling devices
- ◆ Separately fused outputs
- ◆ Monitoring of the signalling device lines through negative monitoring voltage – thereby the interfering activation of the signalling devices by the quiescent surveillance current is prevented

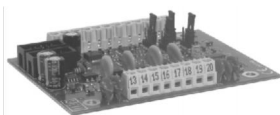
Specifications

Operating voltage	20 to 31VDC
External supply voltage	20 to 36VDC
Current consumption at 24V	10mA (quiescent)
Load current per output	max. 500mA (externally supplied)
Output voltage siren circuit idle	-1.1VDC
Output voltage siren circuit active	approx. equal to supply voltage
End-of-line resistor	5,6kOhm
Quiescent surveillance current	0.2mA
Ambient temperature	-5°C to +50°C
Dimensions L × W × H	95 × 75 × 15 (mm)
Weight	50g

223026

Siren Connection Module SZ58-3

The Siren Connection Module SZ58-3 is designed with four siren circuits for activation of remote signalling devices (e.g., sirens, strobes) to expand control panels Series BC216, BC016 and BC06. All four siren circuits have separately actuable, individually fused and monitored outputs. In addition, each circuit contains a separate fault detection output. Monitored signalling devices may either be supplied by the control panel or, at higher current demand, by an external power supply.



Features

- ◆ 4 individually fused and monitored siren circuits
- ◆ Display of 'active' and 'fault' state of each circuit
- ◆ Separate fault detection output for each siren circuit with direct response to a conventional detector zone, an input on the central processing board or an input on the fire brigade interface
- ◆ Activation via external switches or open collector outputs of the control panel, connection either with terminals or flat cable
- ◆ Monitoring of the supply voltage of siren circuits
- ◆ Monitoring of signalling device lines by negative surveillance voltage - thereby, the activation of signalling devices is avoided by the monitoring quiescent current

Specifications

Supply voltage	21 - 30VDC
Sirens supply voltage	21 - 30VDC
Current consumption at 24V	typ. 15mA (all siren output quiescent)
Load current per siren circuit	max. 500mA
Output voltage (sirens quiescent)	typ. -1.2VDC
Output voltage (sirens activated)	external supply voltage minus typ. 1V
End-of-line resistor	5.6kOhm
Ambient temperature	-5°C to +50°C
Dimensions L × W × H	98 × 74 × 18 (mm)
Weight	60g

Cross-references	Page	Art.Nr.	Name	Type
	29	214105	BCnet Sectional Control Panel/No Op. BC216-3CE	
	25	214005	BCnet Sectional Control Panel/No Operation BC216-3	
	23	214056	BCnet Sectional Control Panel/OP. BC216-2/INT1	
	7	210122	Fire and Evacuation Panel BC016-2/INT1	
	6	210102	Fire Detection Control Panel BC016-1/INT1	
	1	210205	Fire Detection Control Panel BC06-1/INT1	
	3	210209	Fire Detection Control Panel BC06-2/INT1	
	12	214008	Fire Detection Control Panel BC216-1/INT1	
	27	214108	Fire Detection Control Panel BC216-1CE/INT1	
	16	214308	Fire Detection Control Panel BC216-1S/INT1	
	31	214204	Fire Detection Control Panel Module/PS BCM216-3EPS	
	32	214205	Fire Detection Control Panel Module BCM216-3E	

222007**Terminal Converter Module 16-Fold SUB58-2**

Componentry used for the easy conversion of a 10-pole flat cable connector to screw terminals. The cabling of two times 8 open collector outputs as well as the triggering of relay modules of type RL58-1 and RL58-2 in this way can be realised flexibly and according to the individual requirements.

Specifications

Connection technology	two 10-pole flat cable connectors 16 screw terminals
Ambient temperature	-5°C to +50°C
Dimensions L × W × H	85 × 30 × 20 (mm)
Weight	100g

222004**Relay Module 8-Fold/60VDC RL58-1**

Componentry for the switching of consumer loads via eight dry changeover contacts, which can be triggered separately. The componentry can be installed in Fire Detection Control Panels Series BC216, Series BC016, Series BC06, Series LBC and in the Burglar Alarm Control Panel LAC1000-1.

Features

- ◆ Eight independent relays with one dry changeover contact each
- ◆ Galvanically isolated switch contacts on separate terminals
- ◆ Separate LED display for each relay
- ◆ Common positive supply
- ◆ Connection of trigger inputs via terminals or flat cable

Specifications

Operating voltage	20 to 31VDC
Current consumption at 24V	typ. 22mA per activated circuit
Control current	typ. 1.2mA per input
Switching power per contact	1A/60V/30W
Contact life	unloaded: approx. 5m switching cycles at 24VDC/1A: approx. 300,000 switching cycles

Ambient temperature	-5°C to +50°C
Dimensions L × W × H	85 × 65 × 37 (mm)
Weight	130g

Cross-references	Page	Art.Nr.	Name	Type
	40	214003	Auxiliary Case for BC216 GEH216-4	
	41	214128	Battery Bracket BK216-1CE	
	29	214105	BCnet Sectional Control Panel/No Op. BC216-3CE	
	25	214005	BCnet Sectional Control Panel/No Operation BC216-3	
	23	214056	BCnet Sectional Control Panel/OP. BC216-2/INT1	
	7	210122	Fire and Evacuation Panel BC016-2/INT1	
	6	210102	Fire Detection Control Panel BC016-1/INT1	
	1	210205	Fire Detection Control Panel BC06-1/INT1	
	3	210209	Fire Detection Control Panel BC06-2/INT1	
	12	214008	Fire Detection Control Panel BC216-1/INT1	
	27	214108	Fire Detection Control Panel BC216-1CE/INT1	
	16	214308	Fire Detection Control Panel BC216-1S/INT1	
	31	214204	Fire Detection Control Panel Module/PS BCM216-3EPS	
	32	214205	Fire Detection Control Panel Module BCM216-3E	
	42	212034	Module Carrier 19"/3HU MPL17/3	

222010 Relay Module 4-Fold/230VAC RL58-2

Componentry for the switching of consumer loads with increased power demand via four dry changeover contacts, which can be triggered separately. The componentry can be installed in Fire Detection Control Panels Series BC216, Series BC016, Series BC06 and in the Burglar Alarm Control Panel LAC1000-1.



Features

- ◆ Four independent relays with one dry changeover contact each
- ◆ Galvanically isolated changeover contacts on terminals
- ◆ Separate LED display for each relay
- ◆ Common positive supply
- ◆ Connection of trigger inputs via terminals or flat cable

Specifications

Operating voltage	20 to 31VDC
Current consumption at 24V	typ. 22mA per activated circuit
Control current	typ. 1.2mA per input
Switching power per contact	3A/30VDC or 5A/230VAC
Contact life	unloaded: approx. 20m switching cycles at 230VAC/3A: approx. 400,000 switching cycles
Ambient temperature	-5°C to +50°C
Dimensions L × W × H	98 × 74 × 28 (mm)
Weight	120g

Cross-references	Page	Art.Nr.	Name	Type
	40	214003	Auxiliary Case for BC216 GEH216-4	
	41	214128	Battery Bracket BK216-1CE	
	29	214105	BCnet Sectional Control Panel/No Op. BC216-3CE	
	25	214005	BCnet Sectional Control Panel/No Operation BC216-3	
	23	214056	BCnet Sectional Control Panel/OP. BC216-2/INT1	
	7	210122	Fire and Evacuation Panel BC016-2/INT1	
	6	210102	Fire Detection Control Panel BC016-1/INT1	
	1	210205	Fire Detection Control Panel BC06-1/INT1	
	3	210209	Fire Detection Control Panel BC06-2/INT1	
	12	214008	Fire Detection Control Panel BC216-1/INT1	
	27	214108	Fire Detection Control Panel BC216-1CE/INT1	
	16	214308	Fire Detection Control Panel BC216-1S/INT1	
	31	214204	Fire Detection Control Panel Module/PS BCM216-3EPS	
	32	214205	Fire Detection Control Panel Module BCM216-3E	
	42	212034	Module Carrier 19"/3HU MPL17/3	

229008 Flat Cable 1700mm/10-Pole FBK17-1

Flat cable with a length of 1.7m for the connection of modules, which are connected via a 10-pole flat cable (e.g., Relay Modules RL58-1, RL58-2), if a longer cable than the supplied 300mm cable is required.

Cross-references	Page	Art.Nr.	Name	Type
	63	222010	Relay Module 4-Fold/230VAC RL58-2	
	62	222004	Relay Module 8-Fold/60VDC RL58-1	
	61	223026	Siren Connection Module SZ58-3	

7

Protocol Printers

227003 Protocol Printer/Thermal DPU414-30B

Desktop printer used as protocol equipment to be connected to a Serial Interface Module SIM216-1 of a Fire Detection Control Panel Series BC216 or Series BC016, or to a Serial Interface Module SIM06-1 of a Fire Detection Control Panel Series BC06. Depending on the



control panel, the logging includes the location of the activated detectors, detector zone number, date and time and any change in the operating condition of the fire detection control panel at the beginning and the end of the event. The events are printed as plain-text with 80 characters per line. In combination with Fire Detection Control Panels Series BC216 or Series BC016, the entire event memory and the parameteri-

sed system configuration can also be printed. If used in analogue technology, the current measured values of the detectors, the measured values of the previous 6 months, as well as a maintenance recommendation for every single detector can be printed once or periodically as well.

The protocol printer is supplied through the AC Adapter PW4007-E1 (not included in the delivery).

Features

- ◆ Thermal printer with 80 characters per line
- ◆ Power LED
- ◆ On line/OFF line switching with separate LED display
- ◆ "Paper feed" button
- ◆ Space for optional stand-by battery

Specifications

Power supply	external AC Adapter PW4007-E1 (not included in delivery of the protocol printer)
Ambient temperature	0°C to +40°C
Relative humidity	30 to 80% (no condensation)
Dimensions W × H × D	160 × 170 × 66.5 (mm)
Weight	580g

Cross-references	Page	Art.Nr.	Name	Type
	65	227004	AC-Adapter for DPU414 PW4007-E1	
	66	227005	Battery for DPU414 BT4005	
	52	214231	Interface Adapter Module IAM216-1E	
	66	227007	Printer Cable for DPU414/1.8m 9POL.D-SUB-VERL.	
	4	210215	Serial Interface Module SIM06-1	
	52	214025	Serial Interface Module SIM216-1	
	67	227006	Spare Paper for DPU414/1Roll MM112-402-N	

227004 AC-Adapter for DPU414 PW4007-E1

Power unit for the supply of the Protocol Printer/Thermal DPU414-30B.

Specifications

Mains voltage	230VAC, 50Hz
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Output voltage	6.5VDC
Output current	2.0A
Dimensions W × H × D	114 × 75 × 61 (mm)
Cable length	1.8m
Weight	approx. 1kg

Cross-references	Page	Art.Nr.	Name	Type
	65	227003	Protocol Printer/Thermal DPU414-30B	

227005 Battery for DPU414 BT4005

Stand-by battery suitable for installation in the Protocol Printer/Thermal DPU414-30B.

Specifications

Type	Ni-MH
Voltage	4.8VDC
Output voltage	2.0A
Weight	approx. 120g

Cross-references	Page	Art.Nr.	Name	Type
	65	227003	Protocol Printer/Thermal DPU414-30B	

227007 Printer Cable for DPU414/1.8m 9POL.D-SUB-VERL.

Cable for the connection of the Protocol Printer/Thermal DPU414-30B to the serial interface module of a Fire Detection Control Panel of Series BC216, Series BC016 or BC06.

Specifications

Cable length	1.8m
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Cross-references	Page	Art.Nr.	Name	Type
	52	214231	Interface Adapter Module IAM216-1E	
	65	227003	Protocol Printer/Thermal DPU414-30B	
	4	210215	Serial Interface Module SIM06-1	
	52	214025	Serial Interface Module SIM216-1	

227008 Protocol Printer/Dot-Matrix LX300

Desktop printer used as protocol equipment to be connected to a Serial Interface Module of a Fire Detection Control Panel Series BC216 or Series BC016, or to a Serial Interface Module SIM06-1 of a Fire Detection Control Panel Series BC06. Depending on the control panel, the



logging includes the location of the activated detectors, detector zone number, date and time and any change in the operating condition of the fire detection control panel at the beginning and the end of the event. The events are printed as plain-text with 80 characters per line. In combination with Fire Detection Control Panels Series BC216 or Series BC016, the entire event memory and the parameterised system configuration can

also be printed. If used in analogue technology, the current measured values of the detectors, the measured values of the previous 6 months, as well as a maintenance recommendation for every single detector can be printed once or periodically as well.

Note: Replacement ribbon cartridges are available in specialised stores.

Features

- ◆ 9 dot-matrix printer with 80 characters per line
- ◆ Use of continuous paper
- ◆ High printing speed
- ◆ Low-noise printing
- ◆ Easy operation via three buttons
- ◆ Three optical displays

Specification

Mains voltage	230VAC +10/-15%, 50Hz
Nominal current	0.5A
Power consumption	approx. 30W
Ambient temperature	+5°C to +35°C
Relative humidity	5 to 85% (no condensation)
Dimensions W × H × D	366 × 147 × 275 (mm)
Weight	approx. 4kg

Cross-references	Page	Art.Nr.	Name	Type
	52	214231	Interface Adapter Module IAM216-1E	
	67	227010	Printer Cable for LX300/3m 25POL.D-SUB-VERL.	
	4	210215	Serial Interface Module SIM06-1	
	52	214025	Serial Interface Module SIM216-1	

227010**Printer Cable for LX300/3m 25POL.D-SUB-VERL.**

Serial data cable for the connection of a Protocol Printer of type LX300 to a Fire Detection Control Panel Series BC216, BC016 or BC06. The cable is configured with a 9-pole D-SUB socket and a 25-pole D-SUB connector.

Specifications

Cable length	3m
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Cross-references	Page	Art.Nr.	Name	Type
	52	214231	Interface Adapter Module IAM216-1E	
	66	227008	Protocol Printer/Dot-Matrix LX300	
	4	210215	Serial Interface Module SIM06-1	
	52	214025	Serial Interface Module SIM216-1	

227006**Spare Paper for DPU414/1Roll MM112-402-N**

One roll of thermal paper for the Protocol Printer/Thermal DPU414-30B.

Cross-references	Page	Art.Nr.	Name	Type
	65	227003	Protocol Printer/Thermal DPU414-30B	

8 Display and Operating Devices

250039 Remote Display and Operating Panel ABF216-1/INT1

Remote panel used for operating and displaying all events of a Fire Detection Control Panel BCnet216. The remote panel provides the same operation convenience and the same information (LED displays and 4-line text display) as any operatable sectional control panel. The remote panel is installed in a wall-mount cabinet.



The labels of display and operating elements as well as the displayed texts are in English language.

Features

- ◆ Connection as GSSnet member to the GSSnet of the Fire Detection Control Panel BCnet216
- ◆ Operation and display of all events of the fire detection control panel
- ◆ 4-line display texts
- ◆ Menu-controlled operation
- ◆ Menu-controlled programming
- ◆ Continuous supervision of the data exchange with the control panel
- ◆ Power supply via the fire detection control panel

Specifications

Supply power	15 - 31VDC
Current consumption at 24V	140mA (normal)
GSSnet line length	max. 1200m on each side to the adjacent GSSnet member (with Cat 5 cable)
Ambient temperature	-5°C to +50°C
Dimensions W × H × D	200 × 300 × 65 (mm)
Colour	grey white, RAL 9002
Weight	1.4kg

Cross-references	Page	Art.Nr.	Name	Type
	29	214105	BCnet Sectional Control Panel/No Op. BC216-3CE	
	25	214005	BCnet Sectional Control Panel/No Operation BC216-3	
	23	214056	BCnet Sectional Control Panel/OP. BC216-2/INT1	
	30	2149997	BCnet Sectional Control Panel/OP. BC216-2EPS	
	27	214108	Fire Detection Control Panel BC216-1CE/INT1	

250030 Remote Display and Operating Panel ABF216-1/A1

Remote panel in the version for Austria, used for operating and displaying all events of a Fire Detection Control Panel BCnet216. Functions, specifications and cross-references correspond to the Remote Display and Operating Panel ABF216-1/INT1. The labels of display and operating elements as well as the displayed texts are in German language.

250705 Remote Display and Operating Panel ABF216-1/D1

Remote panel in the version for Germany, used for operating and displaying all events of a Fire Detection Control Panel BCnet216. Functions, specifications and cross-references correspond to the Remote Display and Operating Panel ABF216-1/INT1. The labels of display and operating elements as well as the displayed texts are in German language.

- 250036 Remote Display and Operating Panel ABF216-1/B1**
Functions, specifications and cross-references correspond to the Remote Display and Operating Panel ABF216-1/INT1. The labels of display and operating elements as well as the displayed texts are in French language.
- 250033 Remote Display and Operating Panel ABF216-1/CZ1**
Functions, specifications and cross-references correspond to the Remote Display and Operating Panel ABF216-1/INT1. The labels of display and operating elements as well as the displayed texts are in Czech language.
- 250038 Remote Display and Operating Panel ABF216-1/H1**
Functions, specifications and cross-references correspond to the Remote Display and Operating Panel ABF216-1/INT1. The labels of display and operating elements as well as the displayed texts are in Hungarian language.
- 250035 Remote Display and Operating Panel ABF216-1/NL1**
Functions, specifications and cross-references correspond to the Remote Display and Operating Panel ABF216-1/INT1. The labels of display and operating elements as well as the displayed texts are in Dutch language.
- 250037 Remote Display and Operating Panel ABF216-1/SK1**
Functions, specifications and cross-references correspond to the Remote Display and Operating Panel ABF216-1/INT1. The labels of display and operating elements as well as the displayed texts are in Slovak language.
- 250046 Remote Display and Operating Panel ABF216-1/RUS1**
Functions, specifications and cross-references correspond to the Remote Display and Operating Panel ABF216-1/INT1. The labels of display and operating elements as well as the displayed texts are in Russian language.
- 250047 Remote Display and Operating Panel ABF216-1/SLO1**
Functions, specifications and cross-references correspond to the Remote Display and Operating Panel ABF216-1/INT1. The labels of display and operating elements as well as the displayed texts are in Slovenian language.
- 250048 Remote Display and Operating Panel ABF216-1/I1**
Functions, specifications and cross-references correspond to the Remote Display and Operating Panel ABF216-1/INT1. The labels of display and operating elements as well as the displayed texts are in Italian language.
- 250049 Remote Display and Operating Panel ABF216-1/PL1**
Functions, specifications and cross-references correspond to the Remote Display and Operating Panel ABF216-1/INT1. The labels of display and operating elements as well as the displayed texts are in Polish language.

250050 Remote Display and Operating Panel ABF216-1/HR1

Functions, specifications and cross-references correspond to the Remote Display and Operating Panel ABF216-1/INT1. The labels of display and operating elements as well as the displayed texts are in Croatian language.

250009 Remote Tableau SG58-2/A1

Remote display panel for the monitored optical and acoustic display of all operating conditions of Fire Detection Control Panels Series BC016, BC216 and LBC. The most important operating conditions are displayed by LED indicators. In addition, the integrated 4 line event



text display provides the same information as the fire detection and the burglar alarm control panel. The Remote Tableau SG58-2/A1 is actuated via the INFO bus of the control panel. A Serial Interface Module SIM016-3 is required for connection to the Fire Detection Control Panel Series BC016. The connection to the Fire Detection Control Panel Series BC016 is possible without any additional devices.

Features

- ◆ 4 line event text display to provide clear information
- ◆ LED indicators for operation, alarm, fault, transmitting device activation and fault
- ◆ Integrated buzzer with silence function
- ◆ Setable baudrate
- ◆ LED and LCD test functions
- ◆ Wall-mount steel sheet cabinet

Specifications

Supply voltage	20 - 31VDC
Current consumption at 24V	40mA (quiescent), 55mA (active)
Ambient temperature	-5°C to +50°C
Dimensions W × H × D	162 × 209 × 34 (mm)
Colour	grey white, RAL 9002
Weight	1.4kg

Cross-references	Page	Art.Nr.	Name	Type
	29	214105	BCnet Sectional Control Panel/No Op. BC216-3CE	
	25	214005	BCnet Sectional Control Panel/No Operation BC216-3	
	24	214004	BCnet Sectional Control Panel/OP. BC216-2/A1	
	30	2149997	BCnet Sectional Control Panel/OP. BC216-2EPS	
	7	210122	Fire and Evacuation Panel BC016-2/INT1	
	6	210102	Fire Detection Control Panel BC016-1/INT1	
	14	214000	Fire Detection Control Panel BC216-1/A1	
	29	214100	Fire Detection Control Panel BC216-1CE/A1	
	16	214308	Fire Detection Control Panel BC216-1S/INT1	
	31	214204	Fire Detection Control Panel Module/PS BCM216-3EPS	
	32	214205	Fire Detection Control Panel Module BCM216-3E	

250015 Remote Tableau SG58-2/NL1

Functions and specifications correspond to the Remote Tableau SG58-2/A1. The labels and the displayed texts are in Dutch language.

250016 Remote Tableau SG58-2/B1

Functions and specifications correspond to the Remote Tableau SG58-2/A1. The labels and the displayed texts are in French language.

250018 Remote Tableau SG58-2/CZ1

Functions and specifications correspond to the Remote Tableau SG58-2/A1. The labels and the displayed texts are in Czech language.

250013 Remote Display Panel SG48-2

Remote indication unit for the optical and acoustic indication of summary alarm and fault signals from fire detection control panels. The Remote Display Panel can be surface or flush mounted in dry rooms.

Features

- ◆ Optical indication via LEDs
- ◆ Acoustic indication by means of integrated buzzer with silence function
- ◆ Display unit and reset button for the buzzer integrated in front panel
- ◆ Alternative buzzer connection options for fault and alarm indication

Specifications

Supply voltage	20 to 31VDC
Current consumption at 24V	per LED: 20mA buzzer 17mA
Number of wires for connection	4
Ambient temperature	-5°C to +50°C
Dimensions L × W × D	86 × 86 × 40 (mm)
Colour	white
Weight	170g

Cross-references	Page	Art.Nr.	Name	Type
	29	214105	BCnet Sectional Control Panel/No Op. BC216-3CE	
	25	214005	BCnet Sectional Control Panel/No Operation BC216-3	
	23	214056	BCnet Sectional Control Panel/OP. BC216-2/INT1	
	7	210122	Fire and Evacuation Panel BC016-2/INT1	
	6	210102	Fire Detection Control Panel BC016-1/INT1	
	1	210205	Fire Detection Control Panel BC06-1/INT1	
	3	210209	Fire Detection Control Panel BC06-2/INT1	
	12	214008	Fire Detection Control Panel BC216-1/INT1	
	27	214108	Fire Detection Control Panel BC216-1CE/INT1	
	16	214308	Fire Detection Control Panel BC216-1S/INT1	
	31	214204	Fire Detection Control Panel Module/PS BCM216-3EPS	
	32	214205	Fire Detection Control Panel Module BCM216-3E	

251001 Remote Indicator PA58-1

Remote Indicator for quick identification of alarm-triggering detectors if the indicator on the detector itself is not visible (due to false floors or ceilings, etc.). Depending on the connection, the remote indicator can indicate the activation of a single detector or multiple detectors.

Features

- ◆ Elegant surface mount plastic case with red cap
- ◆ High-power LEDs
- ◆ Supply via detector line

Specifications

Operating voltage	supply through the detector line or loop voltage
Current consumption at 24V	typ. 12mA (active)
Ambient temperature	-5°C to +50°C
Dimensions W × H × D	70 × 70 × 35 (mm)
Colour	white

Weight 150g

252010 LED Display Tableau LAT288-1

The LED Display Tableau LAT288-1 allows for the design of a display for the optical signalling of events of a Fire Detection Control Panel Series BC016 or BC216 and of an Extinguishing Control Panel Series LC216 via parameterisable LED pair indicators. The tableau housing consists of a wall-mount case made of powder coated steel sheet, which accommodates up to three LED Display Fields LAB48-x and the Remote Tableau Drive Unit PTU288-1.



The front side of the case is sealed with a light grey plastic foil, which has six windows integrated for labelling of LED indicator pairs. Besides LED-display fields, further optional componentries (e.g., relay modules) and up to 2 × 12V/max. 22Ah stand-by batteries (at the bottom of the case) can be accommodated.

Specifications

Dimensions W × H × D 420 × 520 × 120 (mm)
 Colour of cabinet grey white, RAL 9002
 Colour of front foil light grey, RAL 7035
 Weight 6.2kg (without optional componentries)

Cross-references	Page	Art.Nr.	Name	Type
	25	214005	BCnet Sectional Control Panel/No Operation BC216-3	
	23	214056	BCnet Sectional Control Panel/OP. BC216-2/INT1	
	7	210122	Fire and Evacuation Panel BC016-2/INT1	
	6	210102	Fire Detection Control Panel BC016-1/INT1	
	12	214008	Fire Detection Control Panel BC216-1/INT1	
	16	214308	Fire Detection Control Panel BC216-1S/INT1	
	37	214024	LED Display Field LAB48-1	
	38	214030	LED Display Field LAB48-2	
	38	214032	LED Display Field LAB48-3	
	39	214036	LED Display Field LAB48-4	
	73	252012	Remote Tableau Drive Unit PTU288-1	
	287	310002	Stand-by Battery 12V/18Ah	

252011 LED Display Tableau LAT288-1CE

The LED Display Tableau LAT288-1CE allows for the design of a display for the optical signalling of events of a Fire Detection Control Panel Series BC016 or BC216 or of an Extinguishing Control Panel Series LC216 via parameterisable LED indicator pairs. The tableau housing consists of a 19" rack-mount case made of powder coated steel sheet, providing space for the installation of up to three LED Display Fields LAB48-x and the Remote Tableau Drive Unit PTU288-1.



The front side of the case is sealed with a light grey plastic foil, which has six windows integrated for labelling of LED indicator pairs.

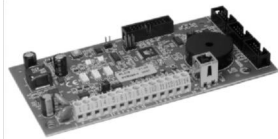
Specifications

Dimensions W × H × D 478 × 266 (6 height units) × 55 (mm)
 Colour of front foil light grey, RAL 7035
 Weight incl. PTU288-1 approx. 1.6kg

Cross-references	Page	Art.Nr.	Name	Type
	29	214105	BCnet Sectional Control Panel/No Op. BC216-3CE	
	30	2149997	BCnet Sectional Control Panel/OP. BC216-2EPS	
	27	214108	Fire Detection Control Panel BC216-1CE/INT1	
	31	214204	Fire Detection Control Panel Module/PS BCM216-3EPS	
	32	214205	Fire Detection Control Panel Module BCM216-3E	
	37	214024	LED Display Field LAB48-1	
	38	214030	LED Display Field LAB48-2	
	38	214032	LED Display Field LAB48-3	
	39	214036	LED Display Field LAB48-4	

252012 Remote Tableau Drive Unit PTU288-1

The Remote Tableau Drive Unit PTU288-1 allows to optically signal events of a Fire Detection Control Panel Series BC016 or BC216 or of an Extinguishing Control Panel Series LC216 on an LED display tableau or a synoptic remote tableau. Further, an integrated buzzer indicates the alarm condition and fault condition of the control panel.



Up to three LED Display Fields LAB48-x or LED Connection Modules LAM48-1 can be connected to the remote tableau drive unit. A remote tableau with up to 144 parameterisable LED indicators can be created in combination with an optional LED Display Tableau LAT288-1 or LAT288-1CE. To design synoptic remote tableaus, the Remote Tableau Drive Unit PTU288-1 can be installed, in combination with LED connection modules, in any housing. This componentry is prepared for mounting in the LST standard grid and comes with the required mounting material.

The remote tableau drive unit is actuated via the INFO bus of the control panel. A Serial Interface Module SIM016-3 is required to connect the PTU288-1 to a Fire Detection Control Panel Series BC016 whereas connection to the Fire Detection Control Panel Series BC216 does not require any additional modules. Up to 6 Remote Tableau Drive Units PTU288-1 can be connected to one control panel.

Features

- ◆ 5 parameterisable inputs for control functions
- ◆ Possible connection of up to three LED Display Fields LAB48-x or LED Connection Modules LAM48-1 in any combination
- ◆ LEDs can be used to indicate the conditions of detectors, detector zones, actuations, actuation elements, alarming devices, transmitting devices, extinguishing systems or flooding zones and the most important system conditions (e.g., summary alarm, fault or disabled condition) depending on the parameter setup
- ◆ Individual or summary display of events from detectors, detector zones, actuations, actuation elements, alarming devices and transmitting devices, depending on the parameter setup
- ◆ USB interface for parameter setup using the parameter setup software PARSOFT (PARSOFT version V1.21 or higher is required for parameterisation of the PTU288-1)
- ◆ Setable baudrate and INFO bus address

Features

Operating voltage	20 - 31VDC
Current consumption at 24V	typ. 15mA (without LED componentries)
Ambient temperature	-5°C to +50°C
USB connection	USB plug socket type B
Dimensions L × W × H	150 × 75 × 20 (mm)
Weight	76g

Cross-references	Page	Art.Nr.	Name	Type
	29	214105	BCnet Sectional Control Panel/No Op. BC216-3CE	
	25	214005	BCnet Sectional Control Panel/No Operation BC216-3	
	23	214056	BCnet Sectional Control Panel/OP. BC216-2/INT1	
	30	2149997	BCnet Sectional Control Panel/OP. BC216-2EPS	
	7	210122	Fire and Evacuation Panel BC016-2/INT1	
	6	210102	Fire Detection Control Panel BC016-1/INT1	
	12	214008	Fire Detection Control Panel BC216-1/INT1	
	27	214108	Fire Detection Control Panel BC216-1CE/INT1	
	16	214308	Fire Detection Control Panel BC216-1S/INT1	
	74	252013	LED Connection Module LAM48-1	
	37	214024	LED Display Field LAB48-1	
	38	214030	LED Display Field LAB48-2	
	38	214032	LED Display Field LAB48-3	
	39	214036	LED Display Field LAB48-4	
	72	252010	LED Display Tableau LAT288-1	
	72	252011	LED Display Tableau LAT288-1CE	

252013 LED Connection Module LAM48-1

The LED Connection Module LAM48-1 is connected to the Remote Tableau Drive Unit PTU288-1 and indicates events from a Fire Detection Control Panel Series BC016 or BC216 or from an Extinguishing Control Panel Series LC216 via 48 LED indicators or relay outputs. The LED connection module is therefore ideal for the design of synoptic remote tableaus.



Each of the 48 outputs can be used for actuation of one light emitting diode or of one relay output of a Relay Module RL58-1 or RL58-2. The signals are available at a pin strip header, which is prepared for the connection of pre-assembled LED cables. The first 16 outputs are available, in addition, at two ten-pin connectors, each for the connection of one Relay Module RL58-1 or one RL58-2 via a flat cable. If more than 16 relay outputs are required, further actuation inputs of additional relay modules can be connected to the LED connection module via suitable connection cables. This componentry is prepared for mounting in the LST standard grid and comes with the required mounting material.

Specifications

Operating voltage	20 - 31VDC
Current consumption at 24V	typ. 3mA (quiescent) max. 80mA (lamp test, 48 LEDs connected)
Ambient temperature	-5°C to +50°C
Dimensions L × W × H	135 × 75 × 15 (mm)
Weight	62g

Cross-references	Page	Art.Nr.	Name	Type
	75	259013	Cord 2 Wire for LED Connection/10pcs. LED-LEITUNG/10	
	74	259011	LED Assembled Green/10pcs. LED-GN/10	
	75	259010	LED Assembled Red/10pcs. LED-RT/10	
	75	259012	LED Assembled Yellow/10pcs. LED-GE/10	
	73	252012	Remote Tableau Drive Unit PTU288-1	

259011 LED Assembled Green/10pcs. LED-GN/10

The packing unit contains 10 light emitting diodes with an assembled connection cable for simple and quick wiring and mounting of green LED indicators on a synoptic remote tableau.

Specifications

- ◆ On one end, each cable has attached a bright green 5mm LED indicator, and on the other end a 2-pin connector, which fits the 2,54mm grid of the pin strip header on the LED Connection Module LAM48-1
- ◆ For each LED indicator, a black plastic LED clip is provided to guarantee a time-saving installation of LEDs
- ◆ No soldering required

Specifications

Operating voltage	supply via LED Connection Module LAM48-1
Length of LED cable	2m
LED Ø	5mm
Drilling for LED clip Ø	6.3 - 6.5mm
Thickness of front panel	max. 2mm

Cross-references	Page	Art.Nr.	Name	Type
	74	252013	LED Connection Module LAM48-1	

259010 LED Assembled Red/10pcs. LED-RT/10

Functions, specifications and cross references are equal to the packing unit of 'LED Assembled Green/10pcs.' Pre-assembled lines though are equipped with bright red LED indicators.

Cross-references	Page	Art.Nr.	Name	Type
	74	252013	LED Connection Module LAM48-1	

259012 LED Assembled Yellow/10pcs. LED-GE/10

Functions, specifications and cross references are equal to the packing unit of 'LED Assembled Green/10pcs.' Pre-assembled lines though are equipped with bright yellow LED indicators.

Cross-references	Page	Art.Nr.	Name	Type
	74	252013	LED Connection Module LAM48-1	

259013 Cord 2 Wire for LED Connection/10pcs. LED-LEITUNG/10

The two-pin connection cable connects light emitting diodes or relays to the LED Connection Module LAM48-1. The cable is required if non-assembled LEDs are used, or if more than two Relay Modules RL58-1 or RL58-2 (which can be directly connected to the LED Connection Module via a flat cable) are being actuated. In this case, the cable connects two additional actuation inputs of a further Relay Module RL58-1 or RL58-2.

One side of the cable has a connector assembled, fitting to the pin strip header of the LED connection Module LAM48-1, the other side has flying leads.

Specifications

Length of cable 2m

Cross-references	Page	Art.Nr.	Name	Type
	74	252013	LED Connection Module LAM48-1	
	63	222010	Relay Module 4-Fold/230VAC RL58-2	
	62	222004	Relay Module 8-Fold/60VDC RL58-1	

9 Conventional Detectors Series FC600

241070

Optical Smoke Detector/Conv./FC600 FC600/O

The optical smoke detector FC600/O operates with an optical sensing chamber on the principle of scattered light. The alarm is transmitted to the fire detection control panel in addressable conventional technology. For quick localisation in the event of an alarm, each detector can be assigned an address by adding an address module NG58-1 to the mounting base. The address of the detector in alarm condition as well as the assigned text is displayed directly on the fire detection control panel, provided that these functions are supported by the control panel.



Intelligent evaluation algorithms in the detector compensate for the impact of contamination of the optical sensing system. Thereby, the response sensitivity of the detector is kept constant for a long time, thus constituting an effective measure for preventing false alarms.

An LED indicator, visible from all angles, displays the activated condition of the detector. The detector is accommodated in a white housing and is designed for indoor mounting. Several base versions are available for mounting the detector.

Features

- ◆ Individual detector addressing by installing an optional address module NG58-1
- ◆ Drift compensation
- ◆ Output for external remote indicator
- ◆ Mechanical theft protection
- ◆ Insect screen
- ◆ Double dust trap
- ◆ Simple function testing using a magnet or test gas

Specifications

Operating voltage	supplied through detector line voltage
Current consumption	typ. 75µA (quiescent)
Ambient temperature	-30°C to +70°C
Relative humidity	max. 95% (no condensation)
Dimensions Ø × H	106 × 46 (mm)
Colour	white
Weight	80g
Approval	LPCB 603a/01

Cross-references	Page	Art.Nr.	Name	Type
	119	249020	Address Module/Conv. NG58-1	
	35	214020	Conventional Detector Interface GIF8-1	
	79	246070	Detector Base/FC600 FC600/BR	
	79	246071	Detector Base with Diode/FC600 FC600/BRD	
	80	246072	Detector Relay Base/FC600 FC600/BREL	
	8	210110	Detector Zone Extension MGE8-1	
	7	210122	Fire and Evacuation Panel BC016-2/INT1	
	6	210102	Fire Detection Control Panel BC016-1/INT1	
	1	210205	Fire Detection Control Panel BC06-1/INT1	
	3	210209	Fire Detection Control Panel BC06-2/INT1	
	71	251001	Remote Indicator PA58-1	
	4	210210	Zone Extension Board ZEB2-1	

242070

Thermal ROR Detector/Conv./FC600 FC600/TDIFF/57

The Thermal Rate-of-rise Detector FC600/TDIFF/57 reacts to temperature changes in defined time intervals or to a maximum temperature of 57°C. Due to the intelligent evaluation of these data, an early detection of expanding fires is possible.



The alarm is transmitted to the fire detection control panel in conventional technology. For quick localisation in the event of an alarm, each detector can be assigned an address by adding an address module NG58-1 to the mounting base. The address of the detector in alarm condition as well as the assigned text is displayed directly on the fire detection control panel, provided

that these functions are supported by the control panel.

An LED indicator, visible from all angles, displays the activated condition of the detector. The detector is accommodated in a white housing, complies with class A1R, and can be installed in rooms that do not exceed a height of 7.5m. Several base versions are available for mounting the detector.

Features

- ◆ Individual detector addressing by installing an optional address module NG58-1
- ◆ Output for external remote indicator
- ◆ Mechanical theft protection
- ◆ Simple function testing using a magnet

Specifications

Operating voltage	supplied through detector line voltage
Current consumption	typ. 40µA (quiescent)
Alarm temperature	typ. 57°C (maximum heat component)
Operating temperature	max. +45°C
Ambient temperature	-30°C to +70°C
Relative humidity	max. 95% (no condensation)
Dimensions Ø × H	106 × 46 (mm)
Colour	white
Weight	80g
Approval	LPCB 603b/02

Cross-references	Page	Art.Nr.	Name	Type
	119	249020	Address Module/Conv. NG58-1	
	35	214020	Conventional Detector Interface GIF8-1	
	79	246070	Detector Base/FC600 FC600/BR	
	79	246071	Detector Base with Diode/FC600 FC600/BRD	
	80	246072	Detector Relay Base/FC600 FC600/BREL	
	8	210110	Detector Zone Extension MGE8-1	
	7	210122	Fire and Evacuation Panel BC016-2/INT1	
	6	210102	Fire Detection Control Panel BC016-1/INT1	
	1	210205	Fire Detection Control Panel BC06-1/INT1	
	3	210209	Fire Detection Control Panel BC06-2/INT1	
	71	251001	Remote Indicator PA58-1	
	4	210210	Zone Extension Board ZEB2-1	

242071

Thermal Max Detector/Conv./FC600 FC600/TMAX/78

The Thermal Max Detector FC600/TMAX/78 identifies a maximum temperature of 78°C as a sign of fire. The alarm is transmitted to the fire detection control panel in conventional technology. For quick localisation in the event of an alarm, each detector can be assigned an address



by adding an address module NG58-1 to the mounting base. The address of the detector in alarm condition as well as the assigned text is displayed directly on the fire detection control panel, provided that these functions are supported by the control panel.

An LED indicator, visible from all angles, displays the activated condition of the detector. The detector is accommodated in a white housing, complies with class BS, and can be installed in rooms that do not exceed a height of 6m. Several base versions are available for mounting the detector.

Features

- ◆ Individual detector addressing by installing an optional address module NG58-1
- ◆ Output for external remote indicator
- ◆ Mechanical theft protection
- ◆ Simple function testing using a magnet

Specifications

Operating voltage	supplied through detector line voltage
Current consumption	typ. 40µA (quiescent)
Alarm temperature	typ. 78°C
Operating temperature	max. +60°C
Ambient temperature	-30°C to +80°C
Relative humidity	max. 95% (no condensation)
Dimensions Ø × H	106 × 46 (mm)
Colour	white
Weight	80g
Approval	LPCB 603b/01

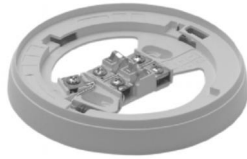
Cross-references	Page	Art.Nr.	Name	Type
	119	249020	Address Module/Conv. NG58-1	
	35	214020	Conventional Detector Interface GIF8-1	
	79	246070	Detector Base/FC600 FC600/BR	
	79	246071	Detector Base with Diode/FC600 FC600/BRD	
	80	246072	Detector Relay Base/FC600 FC600/BREL	
	8	210110	Detector Zone Extension MGE8-1	
	7	210122	Fire and Evacuation Panel BC016-2/INT1	
	6	210102	Fire Detection Control Panel BC016-1/INT1	
	1	210205	Fire Detection Control Panel BC06-1/INT1	
	3	210209	Fire Detection Control Panel BC06-2/INT1	
	71	251001	Remote Indicator PA58-1	
	4	210210	Zone Extension Board ZEB2-1	

10

Accessories for Series FC600

246070 Detector Base/FC600 FC600/BR

The Detector Base FC600/BR is used for mounting of automatic fire detectors Series FC600 in conventional technology. The base is suitable for indoor surface mounting.



Features

- ◆ Multi-wire terminal with secure screw fitting
- ◆ Terminal for external remote indicator
- ◆ Individual detector addressing by installing an optional address module NG58-1
- ◆ Mechanical theft protection of detectors

Specifications

Ambient temperature	-30°C to +70°C
Relative humidity	5 - 95% (no condensation)
Dimensions Ø × H	110 × 16 (mm)
Colour	white
Weight	32g

Cross-references	Page	Art.Nr.	Name	Type
	119	249020	Address Module/Conv. NG58-1	
	76	241070	Optical Smoke Detector/Conv./FC600 FC600/O	
	71	251001	Remote Indicator PA58-1	
	77	242071	Thermal Max Detector/Conv./FC600 FC600/TMAX/78	
	77	242070	Thermal ROR Detector/Conv./FC600 FC600/TDIFF/57	

246071 Detector Base with Diode/FC600 FC600/BRD

The Detector Base FC600/BRD is used for mounting of automatic fire detectors Series FC600 in conventional technology. If no detector is mounted in the base, the connection to the following detectors is maintained by the integrated Schottky diode. The base is suitable for indoor surface mounting.



Features

- ◆ Multi-wire terminal with secure screw fitting
- ◆ Schottky diode to maintain through-connection of the detector line on removal of the detector
- ◆ Terminal for external remote indicator
- ◆ Mechanical theft protection of detectors

Specifications

Ambient temperature	-30°C to +70°C
Relative humidity	5 - 95% (no condensation)
Dimensions Ø × H	110 × 16 (mm)
Colour	white
Weight	36g

Cross-references	Page	Art.Nr.	Name	Type
	76	241070	Optical Smoke Detector/Conv./FC600 FC600/O	
	71	251001	Remote Indicator PA58-1	
	77	242071	Thermal Max Detector/Conv./FC600 FC600/TMAX/78	
	77	242070	Thermal ROR Detector/Conv./FC600 FC600/TDIFF/57	

246072 Detector Relay Base/FC600 FC600/BREL

The Detector Base FC600/BREL is used for mounting of automatic fire detectors Series FC600 in conventional technology. The integrated relay output is active as long as the detector remains in alarm condition. The base is suitable for indoor surface mounting.

Features

- ◆ Multi-wire terminal with secure screw fitting
- ◆ Relay output with dry change-over contact
- ◆ Terminal for external remote indicator
- ◆ Mechanical theft protection of detectors

Specifications

Operating voltage	10 to 28VDC
Current consumption	max. 3 μ A (quiescent), 17mA (active)
Contact rate	1A at 30VDC
Ambient temperature	-30°C to +70°C
Relative humidity	5 - 95% (no condensation)
Dimensions $\varnothing \times H$	111 \times 27 (mm)
Colour	white
Weight	58g

Cross-references	Page	Art.Nr.	Name	Type
	76	241070	Optical Smoke Detector/Conv./FC600 FC600/O	
	71	251001	Remote Indicator PA58-1	
	77	242071	Thermal Max Detector/Conv./FC600 FC600/TMAX/78	
	77	242070	Thermal ROR Detector/Conv./FC600 FC600/TDIFF/57	

11

Conventional Detectors Series 300/ECO1000

241040

Optical Smoke Detector/Conv./300/SS 2351E

Smoke detector operating on the light scatter principle in addressable conventional technology and of flat design, suitable for indoor mounting.

For quick localisation in the event of an alarm, each detector can be assigned an address either by adding an address module NG58-1 to the mounting base or by programming the detector with an optional Remote Program and Test Unit S300RPTU. If the detector is addressed using NG58-1, the detector address as well as the assigned text is displayed directly on the fire detection control panel, provided that these functions are supported by the control panel.



If the detector address has been specified by means of S300RPTU, the detector number is not displayed on the control panel itself but on an additional Zonal Display Unit S300ZDU, one of which must be integrated in every detector line.

Intelligent evaluation algorithms in the detector compensate for the impact of contamination of the optical sensing system. Thereby, the response sensitivity of the detector is kept constant for a long time, thus constituting an effective measure for preventing false alarms. If the contamination of the sensing system is too heavy for further compensation or if the sensing system is defective, the status LED on the detector will flash yellow.

The degree of contamination can be scanned by the maintenance engineer via the Remote Program and Test Unit S300RPTU. Furthermore, the S300RPTU is used to adjust the response sensitivity to the local requirements.

Features

- ◆ Individual detector addressing via Address Module NG58-1 or programming of the detector
- ◆ Response sensitivity can be set to 3 levels (low-medium-high)
- ◆ Functionality check by means of test activation with Remote Program and Test Unit S300RPTU or Remote Test Unit ECO1000RTU
- ◆ Detector status, degree of contamination, detector address, response sensitivity as well as date of latest maintenance can be scanned and edited via Remote Program and Test Unit S300RPTU
- ◆ Output for external remote indicator
- ◆ Mechanical theft protection
- ◆ Insect screen

Specifications

Operating voltage	supplied through detector line voltage
Current consumption	typ. 75µA (quiescent)
Ambient temperature	-30°C to +70°C
Relative humidity	5 to 95% (no condensation)
Dimensions Ø × H	102 × 32.5 (mm)
Colour	cream
Weight	75g
Approval	VdS G202012

Cross-references	Page	Art.Nr.	Name	Type
	119	249020	Address Module/Conv. NG58-1	
	35	214020	Conventional Detector Interface GIF8-1	
	105	246008	Detector Base/Conv./400/100/300/SS B401RM	
	105	246100	Detector Relay Base/Conv./300/SS B324RL	
	8	210110	Detector Zone Extension MGE8-1	
	7	210122	Fire and Evacuation Panel BC016-2/INT1	
	6	210102	Fire Detection Control Panel BC016-1/INT1	
	1	210205	Fire Detection Control Panel BC06-1/INT1	
	3	210209	Fire Detection Control Panel BC06-2/INT1	
	71	251001	Remote Indicator PA58-1	
	112	246111	Remote Program and Test Unit/Conv./300/SS S300RPTU	

113	246150	Remote Test Unit/Conv./300/1000/SS ECO1000RTU
113	246112	Satellite Unit for Remote Programming/Conv./300/SS S300SAT
112	246113	Zonal Display Unit/Conv./300/SS S300ZDU
4	210210	Zone Extension Board ZEB2-1

241041

Optical-Thermal Detector/Conv./300/SS 2351TEM

Multisensor detector with a detection element operating on the light scatter principle and a detection element operating on the heat principle (classified AIR) in addressable conventional technology and of flat design, suitable for indoor mounting in buildings with a maximum room height of 7.5m. The alarm evaluation is based on the analysis of both detection units; if only one characteristic of fire occurs false alarms can be mostly avoided.



For quick localisation in the event of an alarm, each detector can be assigned an address either by adding an address module NG58-1 to the mounting base or by programming the detector with an optional Remote Program and Test Unit S300RPTU.

If the detector is addressed using NG58-1, the detector address as well as the assigned text is displayed directly on the fire detection control panel, provided that these functions are supported by the control panel. If the detector address has been specified by means of S300RPTU, the detector number is not displayed on the control panel itself but on an additional Zonal Display Unit S300ZDU, one of which must be integrated in every detector line.

Intelligent evaluation algorithms in the detector compensate for the impact of contamination of the optical sensing system. Thereby, the response sensitivity of the detector is kept constant for a long time, thus constituting another effective measure for preventing false alarms. If the contamination of the sensing system is too heavy for further compensation or if the sensing system is defective, the status LED on the detector will flash yellow.

The degree of contamination can be scanned by the maintenance engineer via the Remote Program and Test Unit S300RPTU. Furthermore, the S300RPTU is used to adjust the response sensitivity to the local requirements.

Features

- ◆ Individual detector addressing via Address Module NG58-1 or Remote Program and Test Unit S300RPTU
- ◆ Response sensitivity can be set to 3 levels (low-medium-high)
- ◆ Functionality check by means of test activation with Remote Program and Test Unit S300RPTU or Remote Test Unit ECO1000RTU
- ◆ Detector status, degree of contamination, detector address, response sensitivity as well as date of latest maintenance can be scanned and edited via Remote Program and Test Unit S300RPTU
- ◆ Output for external remote indicator
- ◆ Mechanical theft protection
- ◆ Insect screen

Specifications

Operating voltage	supplied through detector line voltage
Current consumption	typ. 85µA (quiescent)
Alarm temperature	58°C (maximum-heat component)
Operating temperature	max. +45°C
Ambient temperature	-30°C to +70°C
Relative humidity	5 to 95% (no condensation)
Dimensions Ø × H	102 × 43 (mm)
Colour	cream
Weight	75g
Approval	VdS G202018

Cross-references	Page	Art.Nr.	Name	Type
	119	249020	Address Module/Conv. NG58-1	
	35	214020	Conventional Detector Interface GIF8-1	
	105	246008	Detector Base/Conv./400/100/300/SS B401RM	
	105	246100	Detector Relay Base/Conv./300/SS B324RL	
	8	210110	Detector Zone Extension MGE8-1	

7	210122	Fire and Evacuation Panel BC016-2/INT1
6	210102	Fire Detection Control Panel BC016-1/INT1
1	210205	Fire Detection Control Panel BC06-1/INT1
3	210209	Fire Detection Control Panel BC06-2/INT1
71	251001	Remote Indicator PA58-1
112	246111	Remote Program and Test Unit/Conv./300/SS S300RPTU
113	246150	Remote Test Unit/Conv./300/1000/SS ECO1000RTU
113	246112	Satellite Unit for Remote Programming/Conv./300/SS S300SAT
112	246113	Zonal Display Unit/Conv./300/SS S300ZDU
4	210210	Zone Extension Board ZEB2-1

242040**Thermal ROR Detector/Conv./300/SS 5351E**

Heat detector operating on the rate-of-rise heat detection principle, combined maximum/rate-of-rise detector classified as A1R (maximum room height 7.5 m), suitable for indoor mounting, in addressable conventional technology and in flat design.



For quick localisation in the event of an alarm, each detector can be assigned an address either by adding an address module NG58-1 to the mounting base or by programming the detector with an optional Remote Program and Test Unit S300RPTU. If the detector is addressed using NG58-1, the detector address as well as the assigned text is displayed directly on the fire detection control panel, provided that these functions are supported by the control panel. If the detector address has been specified by means of S300RPTU, the detector number is not displayed on the control panel itself but on an additional Zonal Display Unit S300ZDU, one of which must be integrated in every detector line.

Features

- ◆ Individual detector addressing via Address Module NG58-1 or Remote Program and Test Unit S300RPTU
- ◆ Functionality check by means of test activation with Remote Program and Test Unit S300RPTU or Remote Test Unit ECO1000RTU
- ◆ Detector status, detector address as well as date of latest maintenance can be scanned via Remote Program and Test Unit S300RPTU
- ◆ Output for external remote indicator
- ◆ Mechanical theft protection

Specifications

Operating voltage	supplied through detector line voltage
Current consumption	typ. 80µA (quiescent)
Alarm temperature	58°C (maximum-heat component)
Operating temperature	max. +45°C
Ambient temperature	-30°C to +70°C
Relative humidity	5 to 95% (no condensation)
Dimensions Ø × H	102 × 43 (mm)
Colour	cream
Weight	75g
Approval	VdS G202014

Cross-references	Page	Art.Nr.	Name	Type
	119	249020	Address Module/Conv. NG58-1	
	35	214020	Conventional Detector Interface GIF8-1	
	105	246008	Detector Base/Conv./400/100/300/SS B401RM	
	105	246100	Detector Relay Base/Conv./300/SS B324RL	
	8	210110	Detector Zone Extension MGE8-1	
	7	210122	Fire and Evacuation Panel BC016-2/INT1	
	6	210102	Fire Detection Control Panel BC016-1/INT1	
	1	210205	Fire Detection Control Panel BC06-1/INT1	
	3	210209	Fire Detection Control Panel BC06-2/INT1	
	71	251001	Remote Indicator PA58-1	
	112	246111	Remote Program and Test Unit/Conv./300/SS S300RPTU	
	113	246150	Remote Test Unit/Conv./300/1000/SS ECO1000RTU	
	113	246112	Satellite Unit for Remote Programming/Conv./300/SS S300SAT	
	112	246113	Zonal Display Unit/Conv./300/SS S300ZDU	
	4	210210	Zone Extension Board ZEB2-1	

242042 Thermal Max Detector/Conv./300/SS 5351TE

The conventional addressable thermal detector 5351TE in flat design operates on the maximum heat principle (class A2S). The device is suitable for mounting in buildings with rooms that do not exceed a height of 6m.



Each detector can be assigned an address for rapid localisation in case of an alarm either by installation of an Address Module NG58-1 in the detector base, or by programming of the detector with the Remote Program and Test Unit S300RPTU. In case the detector is addressed by the NG58-1, the detector address and an assigned detector text are displayed directly at the fire detection control panel, provided that the control panel supports these functions. If the detector address has been specified by means of S300RPTU, the detector number is not displayed on the control panel itself but on an additional Zonal Display Unit S300ZDU, one of which must be integrated in every detector line.

Features

- ◆ Individual detector identification with the Address Module NG58-1 or the Remote Program and Test Unit S300RPTU
- ◆ Function testing possible by test activation via the Remote Program and Test Unit S300RPTU or the Remote Test Unit ECO1000RTU
- ◆ Detector condition, detector address and date of the last maintenance can be read out with the Remote Program and Test Unit S300RPTU
- ◆ Output for external remote indicator
- ◆ Mechanical theft protection

Specifications

Operating voltage	supplied through detector line voltage
Current consumption	typ. 85µA (quiescent)
Alarm temperature	58°C
Operating temperature	max. +45°C
Ambient temperature	-30°C to +70°C (continuous operation)
Relative humidity	5 to 95% (no condensation)
Dimensions Ø × H	102 × 43 (mm)
Colour	cream
Weight	75g
Approval	LPCB 199n Issue9

Cross-references	Page	Art.Nr.	Name	Type
	119	249020	Address Module/Conv. NG58-1	
	35	214020	Conventional Detector Interface GIF8-1	
	105	246008	Detector Base/Conv./400/100/300/SS B401RM	
	105	246100	Detector Relay Base/Conv./300/SS B324RL	
	8	210110	Detector Zone Extension MGE8-1	
	7	210122	Fire and Evacuation Panel BC016-2/INT1	
	6	210102	Fire Detection Control Panel BC016-1/INT1	
	1	210205	Fire Detection Control Panel BC06-1/INT1	
	3	210209	Fire Detection Control Panel BC06-2/INT1	
	71	251001	Remote Indicator PA58-1	
	112	246111	Remote Program and Test Unit/Conv./300/SS S300RPTU	
	113	246150	Remote Test Unit/Conv./300/1000/SS ECO1000RTU	
	113	246112	Satellite Unit for Remote Programming/Conv./300/SS S300SAT	
	112	246113	Zonal Display Unit/Conv./300/SS S300ZDU	
	4	210210	Zone Extension Board ZEB2-1	

242041 Thermal Max Detector/Conv./300/SS 4351E

Thermal detector operating on the maximum heat detection principle (classified BS) in addressable conventional technology, in flat design, suitable for indoor mounting in buildings with a maximum room height of 6m.



For quick localisation in the event of an alarm, each detector can be assigned an address either by adding an address module NG58-1 to the mounting base or by programming the detector with an optional Remote Program and Test Unit S300RPTU. If the detector is addressed using NG58-1, the detector address as well as the assigned text is displayed directly on the fire detection control panel, provided that these functions are supported by the control panel. If the detector address has been specified by means of S300RPTU, the detector number is not displayed on the control panel itself but on an additional Zonal Display Unit S300ZDU, one of which must be integrated in every detector line.

Features

- ◆ Individual detector addressing via Address Module NG58-1 or Remote Program and Test Unit S300RPTU
- ◆ Functionality check by means of test activation with Remote Program and Test Unit S300RPTU or Remote Test Unit ECO1000RTU
- ◆ Detector status, detector address as well as date of latest maintenance can be read out via Remote Program and Test Unit S300RPTU
- ◆ Output for external remote indicator
- ◆ Mechanical theft protection

Specifications

Operating voltage	supplied through detector line voltage
Current consumption	typ. 85µA (quiescent)
Alarm temperature	78°C
Ambient temperature	-30°C to +70°C (continuous operation)
Relative humidity	5 to 95% (no condensation)
Dimensions Ø × H	102 × 43 (mm)
Colour	cream
Weight	75g
Approval	VdS G202016

Cross-references	Page	Art.Nr.	Name	Type
	119	249020	Address Module/Conv. NG58-1	
	35	214020	Conventional Detector Interface GIF8-1	
	105	246008	Detector Base/Conv./400/100/300/SS B401RM	
	105	246100	Detector Relay Base/Conv./300/SS B324RL	
	8	210110	Detector Zone Extension MGE8-1	
	7	210122	Fire and Evacuation Panel BC016-2/INT1	
	6	210102	Fire Detection Control Panel BC016-1/INT1	
	1	210205	Fire Detection Control Panel BC06-1/INT1	
	3	210209	Fire Detection Control Panel BC06-2/INT1	
	71	251001	Remote Indicator PA58-1	
	112	246111	Remote Program and Test Unit/Conv./300/SS S300RPTU	
	113	246150	Remote Test Unit/Conv./300/1000/SS ECO1000RTU	
	113	246112	Satellite Unit for Remote Programming/Conv./300/SS S300SAT	
	112	246113	Zonal Display Unit/Conv./300/SS S300ZDU	
	4	210210	Zone Extension Board ZEB2-1	

241045

Optical Smoke Detector/Conv./1000/SS ECO1003

Smoke detector operating on the light scatter principle in addressable conventional technology, with an optical sensing chamber and of flat design, suitable for indoor mounting.

For quick localisation in the event of an alarm, each detector can be assigned an address by adding an Address Module NG58-1 to the mounting base. The address of the detector in alarm condition as well as the assigned text is displayed directly on the fire detection control panel, provided that these functions are supported by the control panel.



Intelligent evaluation algorithms in the detector compensate for the impact of contamination of the optical sensing system. Thereby, the response sensitivity of the detector is kept constant for a long time, thus constituting an effective measure for preventing false alarms.

Features

- ◆ Individual detector addressing by installing an optional address module NG58-1
- ◆ Drift compensation
- ◆ Output for external remote indicator
- ◆ Insect screen
- ◆ Functionality check by means of test activation with Remote Test Unit ECO1000RTU

Specifications

Operating voltage	supplied through detector line voltage
Current consumption	typ. 65µA (quiescent)
Ambient temperature	-30°C to +70°C
Relative humidity	5 to 95% (no condensation)
Dimensions Ø × H	102 × 32.5 (mm)
Colour	white
Weight	75g
Approval	VdS G201060

Cross-references	Page	Art.Nr.	Name	Type
	119	249020	Address Module/Conv. NG58-1	
	35	214020	Conventional Detector Interface GIF8-1	
	107	246140	Detector Base/Conv./1000/SS ECO1000BR1000	
	107	246141	Detector Relay Base/Conv./1000/SS ECO1000BREL24L	
	8	210110	Detector Zone Extension MGE8-1	
	7	210122	Fire and Evacuation Panel BC016-2/INT1	
	6	210102	Fire Detection Control Panel BC016-1/INT1	
	1	210205	Fire Detection Control Panel BC06-1/INT1	
	3	210209	Fire Detection Control Panel BC06-2/INT1	
	71	251001	Remote Indicator PA58-1	
	113	246150	Remote Test Unit/Conv./300/1000/SS ECO1000RTU	
	4	210210	Zone Extension Board ZEB2-1	

241046**Optical-Thermal Detector/Conv./1000/SS ECO1002**

Multisensor detector with a detection element operating on the light scatter principle and a detection element operating on the rate-of-rise heat principle (classified A1R) in addressable conventional technology, with an optical sensing chamber and of flat design, suitable for indoor mounting in buildings with a maximum room height of 7.5m. The alarm evaluation is based on the analysis of both detection units; if only one characteristic of fire occurs false alarms can be mostly avoided.



For quick localisation in the event of an alarm, each detector can be assigned an address by adding an Address Module NG58-1 to the mounting base. The address of the detector in

alarm condition as well as the assigned text is displayed directly on the fire detection control panel, provided that these functions are supported by the control panel.

Features

- ◆ Individual detector addressing by installing an optional address module NG58-1
- ◆ Drift compensation
- ◆ Output for external remote indicator
- ◆ Insect screen
- ◆ Functionality check by means of test activation with Remote Test Unit ECO1000RTU

Specifications

Operating voltage	supplied through detector line voltage
Current consumption	typ. 80µA (quiescent)
Alarm temperature	58°C (maximum-heat component)
Operating temperature	max. +45°C
Ambient temperature	-30°C to +70°C
Relative humidity	5 to 95% (no condensation)
Dimensions Ø × H	102 × 40.5 (mm)
Colour	white
Weight	75g
Approval	VdS G201067

Cross-references	Page	Art.Nr.	Name	Type
	119	249020	Address Module/Conv. NG58-1	
	35	214020	Conventional Detector Interface GIF8-1	
	107	246140	Detector Base/Conv./1000/SS ECO1000BR1000	
	107	246141	Detector Relay Base/Conv./1000/SS ECO1000BREL24L	
	8	210110	Detector Zone Extension MGE8-1	
	7	210122	Fire and Evacuation Panel BC016-2/INT1	
	6	210102	Fire Detection Control Panel BC016-1/INT1	
	1	210205	Fire Detection Control Panel BC06-1/INT1	
	3	210209	Fire Detection Control Panel BC06-2/INT1	
	71	251001	Remote Indicator PA58-1	
	113	246150	Remote Test Unit/Conv./300/1000/SS ECO1000RTU	
	4	210210	Zone Extension Board ZEB2-1	

242047 Thermal Max Detector/Conv./1000/SS ECO1004T

Thermal detector operating on the maximum heat detection principle (classified BS) in addressable conventional technology, flat design, suitable for indoor mounting in buildings with a maximum room height of 6m.



For quick localisation in the event of an alarm, each detector can be assigned an address by adding an Address Module NG58-1 to the mounting base. The address of the detector in alarm condition as well as the assigned text is displayed directly on the fire detection control panel, provided that these functions are supported by the control panel.

Features

- ◆ Individual detector addressing by installing an optional address module NG58-1
- ◆ Output for external remote indicator
- ◆ Functionality check by means of test activation with Remote Test Unit ECO1000RTU

Specifications

Operating voltage	supplied through detector line voltage
Current consumption	typ. 75µA (quiescent)
Alarm temperature	typ. 78°C
Operating temperature	max. +60°C
Ambient temperature	-30°C to +70°C (continuous operation)
Relative humidity	5 to 95% (no condensation)
Dimensions Ø × H	102 × 40.5 (mm)
Colour	white
Weight	70g
Approval	VdS G204042

Cross-references	Page	Art.Nr.	Name	Type
	119	249020	Address Module/Conv. NG58-1	
	35	214020	Conventional Detector Interface GIF8-1	
	107	246140	Detector Base/Conv./1000/SS ECO1000BR1000	
	107	246141	Detector Relay Base/Conv./1000/SS ECO1000BREL24L	
	8	210110	Detector Zone Extension MGE8-1	
	7	210122	Fire and Evacuation Panel BC016-2/INT1	
	6	210102	Fire Detection Control Panel BC016-1/INT1	
	1	210205	Fire Detection Control Panel BC06-1/INT1	
	3	210209	Fire Detection Control Panel BC06-2/INT1	
	71	251001	Remote Indicator PA58-1	
	113	246150	Remote Test Unit/Conv./300/1000/SS ECO1000RTU	
	4	210210	Zone Extension Board ZEB2-1	

242045 Thermal ROR Detector/Conv./1000/SS ECO1005

Thermal detector operating on the rate-of-rise heat detection principle, in addressable conventional technology, combined maximum/rate-of-rise detector classified as A1R (maximum room height 7.5 m), suitable for indoor mounting.



For quick localisation in the event of an alarm, each detector can be assigned an address by adding an Address Module NG58-1 to the mounting base. The address of the detector in alarm condition as well as the assigned text is displayed directly on the fire detection control panel, provided that these functions are supported by the control panel.

Features

- ◆ Individual detector addressing by installing an optional address module NG58-1
- ◆ Output for external remote indicator
- ◆ Functionality check by means of test activation with Remote Test Unit ECO1000RTU

Specifications

Operating voltage	supplied through detector line voltage
Current consumption	typ. 75µA (quiescent)
Alarm temperature	58°C (maximum-heat component)
Operating temperature	max. +45°C
Ambient temperature	-30°C to +70°C
Relative humidity	5 to 95% (no condensation)
Dimensions Ø × H	102 × 40.5 (mm)
Colour	white
Weight	70g
Approval	VdS G201016

Cross-references	Page	Art.Nr.	Name	Type
	119	249020	Address Module/Conv. NG58-1	
	35	214020	Conventional Detector Interface GIF8-1	
	107	246140	Detector Base/Conv./1000/SS ECO1000BR1000	
	107	246141	Detector Relay Base/Conv./1000/SS ECO1000BREL24L	
	8	210110	Detector Zone Extension MGE8-1	
	7	210122	Fire and Evacuation Panel BC016-2/INT1	
	6	210102	Fire Detection Control Panel BC016-1/INT1	
	1	210205	Fire Detection Control Panel BC06-1/INT1	
	3	210209	Fire Detection Control Panel BC06-2/INT1	
	71	251001	Remote Indicator PA58-1	
	113	246150	Remote Test Unit/Conv./300/1000/SS ECO1000RTU	
	4	210210	Zone Extension Board ZEB2-1	

242046

Thermal Max Detector/Conv./1000/SS ECO1005T

Thermal detector operating on the maximum heat detection principle (classified A2S) in addressable conventional technology, in flat design, suitable for indoor mounting in buildings with a maximum room height of 6m.



For quick localisation in the event of an alarm, each detector can be assigned an address by adding an Address Module NG58-1 to the mounting base. The address of the detector in alarm condition as well as the assigned text is displayed directly on the fire detection control panel, provided that these functions are supported by the control panel.

Features

- ◆ Individual detector addressing by installing an optional address module NG58-1
- ◆ Output for external remote indicator
- ◆ Functionality check by means of test activation with Remote Test Unit ECO1000RTU

Specifications

Operating voltage	supplied through detector line voltage
Current consumption	typ. 75µA (quiescent)
Alarm temperature	typ. 58°C
Operating temperature	max. +45°C
Ambient temperature	-30°C to +70°C
Relative humidity	5 to 95% (no condensation)
Dimensions Ø × H	102 × 40.5 (mm)
Colour	white

Weight
Approval

70g
VdS G201073

Cross-references	Page	Art.Nr.	Name	Type
	119	249020	Address Module/Conv. NG58-1	
	35	214020	Conventional Detector Interface GIF8-1	
	107	246140	Detector Base/Conv./1000/SS ECO1000BR1000	
	107	246141	Detector Relay Base/Conv./1000/SS ECO1000BREL24L	
	8	210110	Detector Zone Extension MGE8-1	
	7	210122	Fire and Evacuation Panel BC016-2/INT1	
	6	210102	Fire Detection Control Panel BC016-1/INT1	
	1	210205	Fire Detection Control Panel BC06-1/INT1	
	3	210209	Fire Detection Control Panel BC06-2/INT1	
	71	251001	Remote Indicator PA58-1	
	113	246150	Remote Test Unit/Conv./300/1000/SS ECO1000RTU	
	4	210210	Zone Extension Board ZEB2-1	

12 Analogue Detectors and Modules Series 200/500

240013 Ionisation Smoke Detector/Anal./200/SS 1251E

Addressable smoke detector operating on the ionisation principle for application on the ADM loop using System Sensor/200 protocol, unipolar chamber in a dual system consisting of a sensing and reference chamber for automatic compensation of environmental influences and of flat design, suitable for indoor mounting.



Intelligent evaluation algorithms in the respective LST fire detection control panels compensate for the impact of contamination of the sensing system. Thereby, the response sensitivity of the detector is kept constant for a long time, thus constituting an effective measure for preventing false alarms.

Features

- ◆ Constant sensitivity
- ◆ 2 decadic rotary switches for setting the physical address from 01 to 99
- ◆ Output for external remote indicator
- ◆ Mechanical theft protection
- ◆ Insect screen
- ◆ Functionality check by means of test activation with magnet

Specifications

Operating voltage	supplied through loop voltage
Current consumption	max. 200µA (quiescent)
Ambient temperature	-10°C to +60°C
Relative humidity	10 to 93% (no condensation)
Radioactive compound	Am241, 0.5µCi (18.5kBq)
Dimensions Ø × H	102 × 43 (mm)
Colour	cream
Weight	102g
Approval	VdS G295010

Cross-references	Page	Art.Nr.	Name	Type
	26	214034	BCnet Sectional Control Panel/Extension BCE216-3LG	
	109	246002	Detector Base/Anal./500/200/SS B501	
	109	246015	Detector Base/Anal./500/200/SS B501DG	
	111	246018	Detector Heater Base/Anal./500/SS B524HTR	
	110	246016	Detector Relay Base/Anal./500/200/SS B524RTE	
	32	214234	Fire Detection Control Panel Module/LG BCM216-3ELG	
	110	246013	Isolator Detector Base/Anal./500/200/SS B524IEFT-1	
	35	214021	Loop Interface LIF64-1	
	71	251001	Remote Indicator PA58-1	

241010 Optical Smoke Detector/Anal./200/SS ND2251EM

Addressable smoke detector operating on the light scatter principle for application on the ADM loop using System Sensor/200 protocol, with an optical sensing chamber and of flat design, suitable for indoor mounting.



Intelligent evaluation algorithms in the respective LST fire detection control panels compensate for the impact of contamination of the optical sensing system. Thereby, the response sensitivity of the detector is kept constant for a long time, thus constituting another effective measure for preventing false alarms.

Features

- ◆ Constant sensitivity
- ◆ 2 decadic rotary switches for setting the physical address from 01 to 99
- ◆ Output for external remote indicator
- ◆ Mechanical theft protection
- ◆ Insect screen
- ◆ Functionality check by means of test activation with magnet

Specifications

Operating voltage	supplied through loop voltage
Current consumption	max. 200µA (quiescent)
Ambient temperature	-20°C to +60°C
Relative humidity	10 to 93% (no condensation)
Dimensions Ø × H	102 × 45 (mm)
Colour	cream
Weight	102g
Approval	VdS G200052

Cross-references	Page	Art.Nr.	Name	Type
	26	214034	BCnet Sectional Control Panel/Extension BCE216-3LG	
	109	246002	Detector Base/Anal./500/200/SS B501	
	109	246015	Detector Base/Anal./500/200/SS B501DG	
	111	246018	Detector Heater Base/Anal./500/SS B524HTR	
	110	246016	Detector Relay Base/Anal./500/200/SS B524RTE	
	32	214234	Fire Detection Control Panel Module/LG BCM216-3ELG	
	110	246013	Isolator Detector Base/Anal./500/200/SS B524IEFT-1	
	35	214021	Loop Interface LIF64-1	
	71	251001	Remote Indicator PA58-1	

241050**Optical Laser Detector/Anal./200/SS 7251**

Addressable smoke detector operating on the laser light principle for application on the ADM loop using System Sensor/200 protocol, with an optical sensing chamber and of flat design, suitable for indoor mounting. Its high response sensitivity, which can be individually set in 9



steps, according to the requirements of the detection task, enables this detector to realise a wide range of specific tasks, common optical smoke detectors cannot cope with. An optional pre-alarm can be activated 2 sensitivity levels before reaching the alarm level.

Intelligent evaluation algorithms compensate for the impact of contamination of the optical sensing system. Thereby, the response sensitivity of the detector is kept constant for a long time, thus constituting an effective measure for preventing false alarms.

The individual response sensitivity of the detector is set via the fire detection control panel.

Features

- ◆ Continuous transmission of the current measured value to the fire detection control panel
- ◆ Constant sensitivity
- ◆ Response sensitivity can be set in 9 levels between 0.06%/m and 6.4%/m
- ◆ 2 decadic rotary switches for setting the address from 01 to 99
- ◆ Output for external remote indicator
- ◆ Mechanical theft protection
- ◆ Insect screen
- ◆ Functionality check by means of test activation with magnet

Specifications

Operating voltage	supplied through loop voltage
Current consumption	max. 330µA (quiescent)
Ambient temperature	-10°C to +50°C
Relative humidity	10 to 93% (no condensation)
Air velocity	max. 20m/s
Dimensions Ø × H	103 × 42 (mm)
Colour	cream

Weight 159g
Approval VdS G202051

Cross-references	Page	Art.Nr.	Name	Type
	210	244030	Aspiration Smoke Detection System A211E-LSR	
	26	214034	BCnet Sectional Control Panel/Extension BCE216-3LG	
	109	246002	Detector Base/Anal./500/200/SS B501	
	109	246015	Detector Base/Anal./500/200/SS B501DG	
	111	246018	Detector Heater Base/Anal./500/SS B524HTR	
	110	246016	Detector Relay Base/Anal./500/200/SS B524RTE	
	32	214234	Fire Detection Control Panel Module/LG BCM216-3ELG	
	110	246013	Isolator Detector Base/Anal./500/200/SS B524IEFT-1	
	35	214021	Loop Interface LIF64-1	
	71	251001	Remote Indicator PA58-1	

241020

Optical-Thermal Detector/Anal./200/SS 2251TEM

Addressable multisensor detector with a detection element operating on the light scatter principle and a detection element operating on the rate-of-rise heat principle (classified A1R) for application on the ADM loop using System Sensor/200 protocol and is of extra flat design, suitable for indoor mounting. The alarm evaluation is based on the analysis of both detection units; if only one characteristic of fire occurs false alarms can be mostly avoided. Please note that the detector must not be used if the room height exceeds 7.5m in the thermal only mode.



The sensitivity of the detector can be preset individually in 5 steps between 2%/m and 5%/m, depending on the application. Three levels show a fixed sensitivity, whereas two levels provide an automatic adaption of the sensitivity, thus enabling the detector to ideally adapt to the environment. The optical detection unit can also be totally disabled for a thermal only mode.

Intelligent evaluation algorithms compensate for the impact of contamination of the optical sensing system. Thereby, the response sensitivity of the detector is kept constant for a long time, thus constituting another effective measure for preventing false alarms.

Features

- ◆ Permanent evaluation of environmental conditions
- ◆ Constant sensitivity
- ◆ 5 different operation modes (optical/thermal, as well as thermal only) can be set via Fire Detection Control Panel Series BC216
- ◆ 2 decadic rotary switches for setting the physical address from 01 to 99
- ◆ Sealed electronics prevents false alarms caused by the environment
- ◆ Output for external remote indicator
- ◆ Mechanical theft protection
- ◆ Insect screen

Specifications

Operating voltage	supply through the loop voltage
Current consumption	typ. 250µA (quiescent)
Alarm temperature	57°C (maximum-heat component)
Operating temperature	max. +45°C
Ambient temperature	-20°C to +60°C (no condensation or icing)
Relative humidity	10 to 93% (no condensation)
Dimensions Ø × H	102 × 45 (mm)
Colour	cream
Weight	115g
Approval	VdS G201041

Cross-references	Page	Art.Nr.	Name	Type
	26	214034	BCnet Sectional Control Panel/Extension BCE216-3LG	
	109	246002	Detector Base/Anal./500/200/SS B501	
	109	246015	Detector Base/Anal./500/200/SS B501DG	
	110	246016	Detector Relay Base/Anal./500/200/SS B524RTE	
	32	214234	Fire Detection Control Panel Module/LG BCM216-3ELG	
	110	246013	Isolator Detector Base/Anal./500/200/SS B524IEFT-1	

35	214021	Loop Interface LIF64-1
71	251001	Remote Indicator PA58-1

241051

Optical-Thermal-CO-IR Detector/Anal./200/SS 2251CTLE

The multi-criteria detector 2251CTLE contains four separate detection units for the four essential characteristics of fire: smoke, temperature, carbon monoxide and infrared radiation. The optical smoke sensor works on the principle of scattered light and detects visible smoke particles. The thermal element reacts to changes in temperature in defined time intervals up to the alarm temperature of 58°C (rate-of-rise heat principle class A1R). Due to the long-living carbon monoxide sensor, slowly developing smouldering fires can be easily detected. The infrared sensor reacts to the flicker of flames and supports the detection of fires with little smoke formation (e.g., alcohol fire).



All typical fire patterns are detected due to intelligent analysis of measured values obtained from all four detection units. Thereby, on one hand, deceptive alarms can be almost entirely excluded when noise levels occur (caused for example by soldering or a dusty environment). On the other hand, a real fire is quickly and reliably detected. The detector is therefore highly resistant to external influences and can effectively be used in virtually any environmental conditions.

The response sensitivity of the optical detector can be individually adjusted in 5 steps between 3.2%/m and 12.8%/m, depending on the application. In addition, the alarm activation of the detector can be accelerated or delayed by intelligent evaluation algorithms that analyse the measured values obtained from all sensors. A thermal-only mode is also available.

An automatic drift compensation minimises the influence of contamination on the optical sensing chamber and the CO cell. Thereby, the response sensitivity of the sensing units is kept constant - a further effective measure for avoiding false alarms.

The carbon monoxide sensor has, with 6 years, a long lifespan. The upcoming end of the lifespan can be evaluated during maintenance of the fire detection control panel. The end of the lifespan is indicated with a fault message.

The detector is designed for use on the ADM loop using System Sensor/200 protocol and is suitable for indoor mounting. Importantly, operation in thermal mode-only is only allowed in rooms that do not exceed a height of 7.5m.

For operation of the detector, a firmware version PL149 Vx.21 or higher is required, for parameterisation a PARSOFT-Version V1.21 or higher is necessary.

Features

- ◆ Constant sensitivity of the optical sensing chamber
- ◆ Response sensitivity adjustable in 6 steps at the Fire Detection Control Panel Series BC216
- ◆ 2 decadic rotary switches for setting the address from 01 to 99
- ◆ Sealed electronics prevents false alarms caused by environmental influences
- ◆ Output for external remote indicator
- ◆ Display of activated condition via 2 LED indicators that are visible from all angles
- ◆ Mechanical theft protection
- ◆ Insect screen

Features

Operating voltage	supplied through loop voltage
Current consumption	max. 300µA (quiescent)
Alarm temperature	58°C (maximum temperature)
Wave length infrared sensor	800 - 1200nm
Measurement range CO sensor	0 - 500ppm
Ambient temperature	-20°C to +55°C (no condensation or icing)
Relative humidity	15 - 90% (no condensation)
Dimensions Ø × H	102 × 60 (mm)
Colour	cream
Weight	130g

Approval LPCB 199t/01

Cross-references	Page	Art.Nr.	Name	Type
	26	214034	BCnet Sectional Control Panel/Extension BCE216-3LG	
	109	246002	Detector Base/Anal./500/200/SS B501	
	109	246015	Detector Base/Anal./500/200/SS B501DG	
	110	246016	Detector Relay Base/Anal./500/200/SS B524RTE	
	32	214234	Fire Detection Control Panel Module/LG BCM216-3ELG	
	110	246013	Isolator Detector Base/Anal./500/200/SS B524IEFT-1	
	35	214021	Loop Interface LIF64-1	
	71	251001	Remote Indicator PA58-1	

242002 Thermal Detector/Anal./200/SS 5251EM

Addressable thermal detector operating on the heat principle for application on the ADM loop using System Sensor/200 protocol, suitable for indoor mounting. The detector can be classified A1S, A1R or BS; parameterisation in a compatible fire detection control panel determines the class to be used.



Features

- ◆ Continuous transmission of the current measured value to the fire detection control panel
- ◆ 2 decadic rotary switches for setting the physical address from 01 to 99
- ◆ Output for external remote indicator
- ◆ Mechanical theft protection

Specifications

Operating voltage	supplied through loop voltage
Current consumption	max. 200µA (quiescent)
Alarm temperature	
Class A1S	58°C (maximum detector), max. room height 7.5m
Class A1R	58°C (rate-of-rise detector), max. room height 7.5m
Class BS	78°C (maximum detector), max. room height 6m
Operating temperature	
Classes A1S and A1R	max. +45°C
Class BS	max. +68°C
Ambient temperature	-20°C to +60°C (continuous operation)
Relative humidity	10 to 93% (no condensation)
Dimensions Ø × H	102 × 51 (mm)
Colour	cream
Weight	102g
Approval	VdS G200094

Cross-references	Page	Art.Nr.	Name	Type
	26	214034	BCnet Sectional Control Panel/Extension BCE216-3LG	
	109	246002	Detector Base/Anal./500/200/SS B501	
	109	246015	Detector Base/Anal./500/200/SS B501DG	
	110	246016	Detector Relay Base/Anal./500/200/SS B524RTE	
	32	214234	Fire Detection Control Panel Module/LG BCM216-3ELG	
	110	246013	Isolator Detector Base/Anal./500/200/SS B524IEFT-1	
	35	214021	Loop Interface LIF64-1	
	71	251001	Remote Indicator PA58-1	

241019 Optical Filtrex Smoke Detector/Anal./500/SS FTX-P1

Addressable smoke detector operating on the light scatter principle for application on the ADM loop using System Sensor/200 protocol, with an optical sensing chamber, suitable for indoor mounting in dusty environments. The detector is equipped with two 32µ filters which



prevent the infiltration of dust and water particles. One filter is firmly built-in, the other is demountable and can be cleaned or replaced by the user. The filters allow smoke to permeate while particles that can trigger deceptive alarms (dust particles, water spray, tiny insects, etc.) are deterred. Since the filters weaken the normal circulation in the sensing chamber, a ventilator powered by an external 24VDC power supply is integrated in the detector, in order to convey enough air into the sensing chamber. The ventilator works in a 15% duty circle (5s on – 30s off).

Intelligent evaluation algorithms compensate for the impact of contamination of the optical sensing system. Thereby, the response sensitivity of the detector is kept constant for a long time, thus constituting another effective measure for preventing false alarms

Features

- ◆ Constant sensitivity
- ◆ 2 decadic rotary switches for setting the physical address from 01 to 99
- ◆ Removable filter

Specifications

Operating voltage (detector)	supply through the loop voltage
Current consumption (detector)	max. 230µA (quiescent)
Operating voltage (ventilator)	15 to 30VDC
Current consumption (ventilator)	6mA (30s stand-by), 60mA (5s duty)
Ambient temperature	-10°C to +55°C
Relative humidity	10 - 93% (no condensation)
Dimensions Ø × H	102 × 89 (mm)
Colour	cream
Weight	207g
Approval	DIFT 0845-CPD-232.1427

Cross-references	Page	Art.Nr.	Name	Type
	26	214034	BCnet Sectional Control Panel/Extension BCE216-3LG	
	111	246012	Detector Base Filtrex/Anal./500/SS B524FTXE	
	32	214234	Fire Detection Control Panel Module/LG BCM216-3ELG	
	35	214021	Loop Interface LIF64-1	
	124	249047	Replacement Filter for Filtrex RF-FTX	

249046

Monitor Module/Anal./500/SS M503ME

Addressable compact module for the line-monitored integration of contact detectors (e.g., manual call points, sprinkler system contacts, supervising contact) into the bi-directional communication on the ADM loop using System Sensor/200 protocol.



Features

- ◆ Output for an optional LED indicator
- ◆ 2 decadic rotary switches for setting the address from 01 to 99

Specifications

Operating voltage	supplied through loop voltage
Current consumption	300µA (quiescent)
Line termination	56kOhm
Alarm threshold	typ. 22kOhm
Ambient temperature	-10°C to +60°C
Dimensions L × W × H	48 × 40 × 13 (mm)
Colour	cream
Weight	33g
Approval	VdS G296025

Cross-references	Page	Art.Nr.	Name	Type
	26	214034	BCnet Sectional Control Panel/Extension BCE216-3LG	
	32	214234	Fire Detection Control Panel Module/LG BCM216-3ELG	

249100 Monitor Module 1xSurv.In/Anal./200/SS M210E

Addressable module for the line-monitored integration of a contact detector (e.g., manual call point, sprinkler system contact, supervising contact) into the bi-directional communication on the ADM loop using System Sensor/200 protocol. The integrated dual-isolator can be activated or deactivated by choosing the appropriate terminals.

Features

- ◆ Status LED
 - ◆ Surveillance of terminal connecting line for wire breakage and short circuit
 - ◆ 2 decadic rotary switches for setting the address from 01 to 99
- ◆ Installation alternatively in module box or by means of mounting pedestal

Specifications

Operating voltage	supplied through loop voltage
Current consumption	approx. 510µA (quiescent)
Line termination	56kOhm
Alarm threshold	typ. 22kOhm
Ambient temperature	-20°C to +60°C
Dimensions L × W × H	93 × 94 × 23 (mm)
Colour	cream
Weight	110g
Approval	VdS G202140

Cross-references	Page	Art.Nr.	Name	Type
	117	249110	Base for Carrier Rail for M200/SS M200E-DIN	
	116	249109	Base for Mounting Plate for M200/SS M200E-PMB	
	26	214034	BCnet Sectional Control Panel/Extension BCE216-3LG	
	32	214234	Fire Detection Control Panel Module/LG BCM216-3ELG	
	35	214021	Loop Interface LIF64-1	
	117	249108	Surface Mounting Box for M200/SS M200SMB	

249101 Monitor Module 2xSurv.In/Anal./200/SS M220E

Addressable module for the line-monitored integration of 2 contact detectors (e.g., manual call points, sprinkler system contacts, supervising contacts) into the bi-directional communication on the ADM loop using System Sensor/200 protocol. The integrated dual-isolator can be activated or deactivated by choosing the appropriate terminals.

Features

- ◆ Status LED for every input
 - ◆ Surveillance of terminal connecting lines for wire breakage and short circuit
 - ◆ 2 decadic rotary switches for setting the address from 01 to 99
- ◆ Installation alternatively in module box or by means of mounting pedestal

Specifications

Operating voltage	supplied through loop voltage
Current consumption	approx. 600µA (quiescent)
Line termination	56kOhm
Alarm threshold	typ. 22kOhm
Ambient temperature	-20°C to +60°C
Dimensions L × W × H	93 × 94 × 23 (mm)
Colour	cream
Weight	110g
Approval	VdS G202140

Cross-references	Page	Art.Nr.	Name	Type
	117	249110	Base for Carrier Rail for M200/SS M200E-DIN	
	116	249109	Base for Mounting Plate for M200/SS M200E-PMB	
	26	214034	BCnet Sectional Control Panel/Extension BCE216-3LG	
	32	214234	Fire Detection Control Panel Module/LG BCM216-3ELG	
	35	214021	Loop Interface LIF64-1	
	117	249108	Surface Mounting Box for M200/SS M200SMB	

249102 Module 2xSurv.In 1xRel.Out/Anal./200/SS M221E

Addressable module for the monitored integration of 2 contact detectors (e.g., manual call points, sprinkler system contacts, supervising contacts) as well as for the integration of a dry relay contact for triggering external devices via the bi-directional communication on the ADM loop using System Sensor/200 protocol. The integrated dual-isolator can be activated or deactivated by choosing the appropriate terminals.



Features

- ◆ Separate status LED for each input and output
 - ◆ Surveillance of terminal connection lines for wire breakage and short circuit
 - ◆ 2 decadic rotary switches for setting the address from 01 to 99
- ◆ Installation alternatively in module box or by means of mounting pedestal

Specifications

Operating voltage	supplied through loop voltage
Current consumption	approx. 660µA (quiescent)
Contact rating	2A/30VDC or 0.5A/125VAC
Line termination	56kOhm
Alarm threshold	typ. 22kOhm
Ambient temperature	-20°C to +60°C
Dimensions L × W × H	93 × 94 × 23 (mm)
Colour	cream
Weight	110g
Approval	VdS G202139

Cross-references	Page	Art.Nr.	Name	Type
	117	249110	Base for Carrier Rail for M200/SS M200E-DIN	
	116	249109	Base for Mounting Plate for M200/SS M200E-PMB	
	26	214034	BCnet Sectional Control Panel/Extension BCE216-3LG	
	32	214234	Fire Detection Control Panel Module/LG BCM216-3ELG	
	35	214021	Loop Interface LIF64-1	
	117	249108	Surface Mounting Box for M200/SS M200SMB	

249115 Monitor Module 10xSurv.In/Anal./200/SS IM-10

Addressable module with 10 inputs for the line-monitored integration of contact detectors (e.g., manual call points, sprinkler system contacts, supervising contacts) into the bi-directional communication on the ADM loop using System Sensor/200 protocol.



Features

- ◆ Status LED for every input
 - ◆ Surveillance of terminal connection lines for wire breakage and short circuit
 - ◆ 2 decadic rotary switches for setting the address from 01 to 99
- ◆ Mounting in a Surface Mounting Box For Multimodule/SS

Specifications

Operating voltage	supplied through loop voltage
Current consumption	approx. 3.5mA (quiescent)
Line termination	56kOhm

Alarm threshold	typ. 22kOhm
Ambient temperature	0°C to +50°C
Dimensions L × W × H	172 × 147 × 25 (mm)
Weight	500g

Cross-references	Page	Art.Nr.	Name	Type
	26	214034	BCnet Sectional Control Panel/Extension BCE216-3LG	
	32	214234	Fire Detection Control Panel Module/LG BCM216-3ELG	
	35	214021	Loop Interface LIF64-1	
	118	249117	Surface Mounting Box for Multimodule/SS M200-SMB-MM	

249103**Control Module 1xSurv.Out/Anal./200/SS M201E**

Addressable module for the activation of an external device via the bi-directional communication on the ADM loop using System Sensor/200 protocol. The external device can be triggered by means of either a line-monitored output or a dry contact. The trigger mode can be set via DIL switches. The integrated dual-isolator can be activated or deactivated by choosing the appropriate terminals.

Features

- ◆ Status LED
- ◆ 2 decadic rotary switches for setting the address from 01 to 99
- ◆ Installation alternatively in module box or by means of mounting pedestal

Specifications

Operating voltage	supplied through loop voltage
Current consumption	approx. 510µA (quiescent)
Contact rating	2A/30VDC
Ambient temperature	-20°C to +60°C
Dimensions L × W × H	93 × 94 × 23 (mm)
Colour	cream
Weight	110g
Approval	VdS G202141

Cross-references	Page	Art.Nr.	Name	Type
	117	249110	Base for Carrier Rail for M200/SS M200E-DIN	
	116	249109	Base for Mounting Plate for M200/SS M200E-PMB	
	26	214034	BCnet Sectional Control Panel/Extension BCE216-3LG	
	32	214234	Fire Detection Control Panel Module/LG BCM216-3ELG	
	35	214021	Loop Interface LIF64-1	
	117	249108	Surface Mounting Box for M200/SS M200SMB	

249105**Control Module 1xRel.Out/Anal./200/SS M201E-240**

Addressable module in wall-mount cabinet for the activation of external devices by means of a changeover contact (suitable for 230VAC) via the bi-directional communication on the ADM loop using System Sensor/200 protocol. The integrated dual-isolator can be activated or deactivated by choosing the appropriate terminals.

Features

- ◆ Status LED
- ◆ 2 decadic rotary switches for setting the address from 01 to 99
- ◆ Module delivery includes module box (wall-mount cabinet)

Specifications

Operating voltage	supplied through loop voltage
Current consumption	approx. 510µA (quiescent)
Contact type	changeover contact
Switching power per contact	5A/30VDC or 5A/230VAC

Ambient temperature	-20°C to +60°C
Dimensions L × W × H	132 × 137 × 40 (mm)
Colour	cream/transparent smoke-coloured
Weight	235g
Approval	VdS G202141

Cross-references	Page	Art.Nr.	Name	Type
	26	214034	BCnet Sectional Control Panel/Extension BCE216-3LG	
	32	214234	Fire Detection Control Panel Module/LG BCM216-3ELG	
	35	214021	Loop Interface LIF64-1	

249106**Control Module 1xRel.Out-DIN/Anal./200/SS M201E-240-DIN**

Addressable module, prepared for mounting on a DIN rail, for the activation of external devices by means of a changeover contact (suitable for 230VAC) via the bi-directional communication on the ADM loop using System Sensor/200 protocol. The integrated dual-isolator can be activated or deactivated by choosing the appropriate terminals.

Features

- ◆ Status LED
- ◆ 2 decadic rotary switches for setting the address from 01 to 99
- ◆ prepared for mounting on a DIN rail

Specifications

Operating voltage	supplied through loop voltage
Current consumption	approx. 510µA (quiescent)
Contact type	changeover contact
Switching power per contact	5A/30VDC or 5A/230VAC
Ambient temperature	-20°C to +60°C
Dimensions L × W × H	127 × 76 × 48 (mm)
Weight	235g
Approval	VdS G202141

Cross-references	Page	Art.Nr.	Name	Type
	26	214034	BCnet Sectional Control Panel/Extension BCE216-3LG	
	32	214234	Fire Detection Control Panel Module/LG BCM216-3ELG	
	35	214021	Loop Interface LIF64-1	

249116**Control Module 6xRel.Out/Anal./200/SS CR-6**

Addressable module for the activation of external devices by means of 6 independent dry contacts via the bi-directional communication on the ADM loop using System Sensor/200 protocol.

Features

- ◆ Status LED for every input
- ◆ 2 decadic rotary switches for setting the address from 01 to 99
- ◆ Mounting in a Surface Mounting Box For Multimodule/SS

Specifications

Operating voltage	supplied through loop voltage
Current consumption	approx. 1.5mA (quiescent)
Switching power per contact	2A/30VDC
Ambient temperature	0°C to +50°C
Dimensions L × W × H	172 × 147 × 25 (mm)
Weight	500g

Cross-references	Page	Art.Nr.	Name	Type
	26	214034	BCnet Sectional Control Panel/Extension BCE216-3LG	
	32	214234	Fire Detection Control Panel Module/LG BCM216-3ELG	
	35	214021	Loop Interface LIF64-1	
	118	249117	Surface Mounting Box for Multimodule/SS M200-SMB-MM	

249045 Conventional Zone Module/Anal./500/SS M512ME

Addressable module for the integration of conventional detectors, detectors for intrinsically safe areas and flame detectors into an ADM loop using System Sensor/200 protocol. The address is set in a straightforward manner by means of two decadic rotary switches located on the module itself. The conventional zone module provides a reset output for resetting special detectors. For the mounting of the module, a Surface Mounting Box for M500/SS SMB500 is required.



Specifications

Operating voltage	18 to 32VDC
Quiescent current cons. on loop	300 μ A
Line termination	3.9kOhm
Ambient temperature	-10°C to +60°C
Dimensions L \times W \times H	70 \times 70 \times 32 (mm)
Weight	142g
Approval	VdS G297009

Cross-references	Page	Art.Nr.	Name	Type
	26	214034	BCnet Sectional Control Panel/Extension BCE216-3LG	
	32	214234	Fire Detection Control Panel Module/LG BCM216-3ELG	
	35	214021	Loop Interface LIF64-1	
	118	249004	Surface Mounting Box for M500/SS SMB500	

249104 Conventional Zone Module/Anal./200/SS M210E-CZ

Addressable module for the integration of conventional detectors into an ADM loop using System Sensor/200 protocol. The address is set in a straightforward manner by means of two decadic rotary switches located on the module itself. The integrated dual-isolator can be activated or deactivated by choosing the appropriate terminals. The module can be powered alternatively through the loop or by an external supply with 24VDC. The conventional zone module provides a reset output for resetting special detectors.



Attention: Due to the capacitive line termination, the conventional zone module must not be used for connecting intrinsically safe devices.

Features

- ◆ Status LED
- ◆ Surveillance of detector connecting line for wire breakage and short circuit
- ◆ 2 decadic rotary switches for setting the address from 01 to 99
- ◆ Installation alternatively in module box or by means of mounting pedestal

Specifications

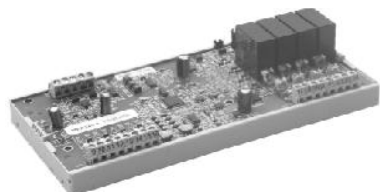
Operating voltage	15 to 30VDC
Current consumption on loop	typ. 500 μ A (quiescent, external voltage supply) typ. 1.5mA (quiescent, loop-supplied)
Line termination	typ. 47 μ F
Capacitance (line incl. detectors)	max. 2.2 μ F
Current consumption of detectors	max. 3mA
Ambient temperature	-20°C to +60°C

Dimensions L × W × H	93 × 94 × 23 (mm)
Weight	110g
Approval	VdS G205144

Cross-references	Page	Art.Nr.	Name	Type
	117	249110	Base for Carrier Rail for M200/SS M200E-DIN	
	116	249109	Base for Mounting Plate for M200/SS M200E-PMB	
	26	214034	BCnet Sectional Control Panel/Extension BCE216-3LG	
	32	214234	Fire Detection Control Panel Module/LG BCM216-3ELG	
	35	214021	Loop Interface LIF64-1	
	117	249108	Surface Mounting Box for M200/SS M200SMB	

249092 Multi Module/Mounting Rail MEA244-1/TR

The addressable module MEA244-1/TR provides 4 inputs and 4 outputs and is connected to a Fire Detection Control Panel Series BC216 via the ADM loop with System Sensor/200 protocol. The inputs allow for the connection of contact detectors (e.g., manual call points,



sprinkler system contacts, supervising contact) and are monitored for wire breakage and short circuit. The outputs serve for the connection of control devices (e.g., solenoid valves, relay coils) and provide a separate monitoring of line resistance and load resistance. The reference value of both resistances is determined by means of an automatic calibration procedure, initiated with a

keystroke during commissioning. If one of the two resistance values differs from the reference value by more than 25% during operation, the output is indicated as faulty.

The method of multiple monitoring – patent pending – provides a reliable detection of line faults or load faults. The multi module is therefore ideally suitable for the application in extinguishing systems. An optional accessory board allows for the hardware-redundant actuation of solenoid valves, according to EN 12094-1.

The module provides an integrated dual-isolator and is designed to be mounted on a DIN rail.

Features

- ◆ Separate status LED for each input and output
- ◆ Surveillance of terminal connecting lines for wire breakage and short circuit
- ◆ Monitoring of the internal resistance of the control devices as well as the line resistance of the supply line with a method pending as patent
- ◆ integrated self-calibration by measuring the line resistance and load resistance, initiated at a keystroke
- ◆ Monitoring of the supply voltage for low voltage
- ◆ Button and LED for setting the physical address
- ◆ Mounting on a DIN rail

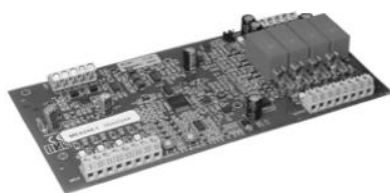
Specifications

Operating voltage	20 to 30VDC
Current consumption	35mA (quiescent), max. 160mA (no load)
Current consumption on the loop	500µA
Number of outputs	4
Load current per output	max. 1.5A
Number of inputs	4
End-of-line resistance	5.6kOhm
Alarm threshold	typ. 1kOhm
Ambient temperature	-5°C to +60°C
Ambient temperature control devices	+5°C to +50°C (to ensure the functioning of the fault detection)
Dimensions L × W × H	196 × 97 × 56 (mm)
Weight	310g
Approval	VdS G205120

Cross-references	Page	Art.Nr.	Name	Type
	26	214034	BCnet Sectional Control Panel/Extension BCE216-3LG	
	47	2189990	Extinguishing Control Panel Series LC216, Description	
	32	214234	Fire Detection Control Panel Module/LG BCM216-3ELG	
	35	214021	Loop Interface LIF64-1	

249095 Multi Module/Panel-Mounting MEA244-1/E

The addressable module MEA244-1/E provides 4 inputs and 4 outputs and is connected to a Fire Detection Control Panel Series BC216 via the ADM loop with System Sensor/200 protocol. The inputs allow for the connection of contact detectors (e.g., manual call points,



sprinkler system contacts, supervising contact) and are monitored for wire breakage and short circuit. The outputs serve for the connection of control devices (e.g., solenoid valves, relay coils) and provide a separate monitoring of line resistance and load resistance. The reference value of both resistances is determined by means of an automatic calibration procedure, initiated with a

keystroke during commissioning. If one of the two resistance values differs from the reference value by more than 25% during operation, the output is indicated as faulty.

The method of multiple monitoring – patent pending – provides a reliable detection of line faults or load faults. The multi module is therefore ideally suitable for the application in extinguishing systems. An optional accessory board allows for the hardware-redundant actuation of solenoid valves, according to EN 12094-1.

The module provides an integrated dual-isolator and is designed to be mounted into a fire detection control panel.

Features

- ◆ Separate status LED for each input and output
- ◆ Surveillance of terminal connecting lines for wire breakage and short circuit
- ◆ Monitoring of the internal resistance of the control devices as well as the line resistance of the supply line with a method pending as patent
- ◆ integrated self-calibration by measuring the line resistance and load resistance, initiated at a keystroke
- ◆ Monitoring of the supply voltage for low voltage
- ◆ Button and LED for setting the physical address from 01 to 99
- ◆ Mounting in LST standard grid by means of supplied mounting spacers

Specifications

Operating voltage	20 to 30VDC
Current consumption	35mA (quiescent), max. 160mA (no load)
Current consumption on the loop	500µA
Number of outputs	4
Load current per output	max. 1.5A
Number of inputs	4
End-of-line resistance	5.6kOhm
Alarm threshold	typ. 1kOhm
Ambient temperature	-5°C to +60°C
Ambient temperature control devices	+5°C to +50°C (to ensure the functioning of the fault detection)
Dimensions L × W × H	194 × 93 × 20 (mm)
Weight	150g
Approval	VdS G205120

Cross-references	Page	Art.Nr.	Name	Type
	26	214034	BCnet Sectional Control Panel/Extension BCE216-3LG	
	47	2189990	Extinguishing Control Panel Series LC216, Description	
	32	214234	Fire Detection Control Panel Module/LG BCM216-3ELG	
	35	214021	Loop Interface LIF64-1	

249090 Limit Switch/Anal./500/SS EDS500-1

The addressable module EDS500-1 allows for the monitoring of the position of slides, valves and similar mechanical appliances. The bi-directional communication on the ADM loop use the System Sensor/200 protocol. The module is located in a plastic housing and is especially durable and fail-safe, due to the use of opto-electronic components.

Features

- ◆ Status LED
- ◆ Button in combination with LED for setting the physical address
- ◆ Mounting terminals according to DIN912 M5

Specifications

Operating voltage	supplied through loop voltage
Current consumption	approx. 300µA (quiescent)
Ambient temperature	-20°C to +60°C
Dimensions L × W × H	59 × 32 × 63 (mm)
Colour	red/black
Protection class	IP65
Weight	80g

Cross-references	Page	Art.Nr.	Name	Type
	26	214034	BCnet Sectional Control Panel/Extension BCE216-3LG	
	47	2189990	Extinguishing Control Panel Series LC216, Description	
	32	214234	Fire Detection Control Panel Module/LG BCM216-3ELG	
	35	214021	Loop Interface LIF64-1	

249091 Monitor Module/Box/Anal./500/SS ÜMB500-1

The addressable module ÜMB500-1 allows for the integration of a contact detector (e.g., pressure switch, temperature monitor) into the bi-directional communication on the ADM loop with System Sensor/200 protocol. The module is integrated in a round, transparent plastic box and is connected both with the ADM loop and with the detector via flying leads. Since the module has no mounting mechanism of its own, it must be installed in the detector housing.

Features

- ◆ Status LED
- ◆ Button in combination with LED for setting the physical address

Specifications

Operating voltage	supplied through loop voltage
Current consumption	approx. 300µA (quiescent)
Ambient temperature	-20°C to +60°C
Dimensions Ø × H	45 × 16 (mm)
Colour	transparent
Weight	80g

Cross-references	Page	Art.Nr.	Name	Type
	26	214034	BCnet Sectional Control Panel/Extension BCE216-3LG	
	47	2189990	Extinguishing Control Panel Series LC216, Description	
	32	214234	Fire Detection Control Panel Module/LG BCM216-3ELG	
	35	214021	Loop Interface LIF64-1	

249003 Isolator Module/Anal./500/200/SS ISM1-2

Isolator module for the connection to the ADM loop using System Sensor/200 protocol. If a short circuit appears between two isolator modules, the defective area is separated from the ADM loop and operation of all other connected detectors and modules is guaranteed. For



optimum availability, the detector zones on the ADM loop should be separated from each other by isolator modules.

Features

- ♦ Wiring of the ADM loop across several fire areas
- ♦ Full operation of all standard loop elements not affected by the short circuit
- ♦ Installation in commercially available installation boxes, on a mounting bracket or a module carrier

Specifications

Operating voltage	supplied through loop voltage
Current consumption	max. 0.2mA
Ambient temperature	-5°C to +50°C
Dimensions L × W × H	70 × 24 × 15 (mm)
Weight	20g
Approval	VdS G296011

Cross-references	Page	Art.Nr.	Name	Type
	26	214034	BCnet Sectional Control Panel/Extension BCE216-3LG	
	32	214234	Fire Detection Control Panel Module/LG BCM216-3ELG	
	35	214021	Loop Interface LIF64-1	

13

Accessories for Series 300/ECO1000/200/500

246008 Detector Base/Conv./400/100/300/SS B401RM

Mounting base for automatic fire detectors Series 400, 300 and 100 in addressable conventional technology, suitable for indoor surface mounting.

Features

- ◆ Multi-useable terminals with secure screw fitting
 - ◆ Auxiliary contact for the through connection of the detector line when the detector is removed
 - ◆ Terminal for external remote indicator
 - ◆ Individual detector addressing by installing an optional address module NG58-1
- ◆ Mechanical theft protection

Specifications

Ambient temperature	-20°C to +70°C
Relative humidity	10 to 93% (no condensation)
Dimensions Ø × H	102 × 20 (mm)
Colour	cream
Weight	57g

Cross-references	Page	Art.Nr.	Name	Type
	119	249020	Address Module/Conv. NG58-1	
	114	246006	Base Adapter/SS MZP500-1	
	226	249011	Detector Label BME/BEZ	
	120	249044	Detector Mounting Bracket MMW1-1	
	174	240015	IS Ionisation Smoke Detector/Conv./100/SS 1151EIS	
	174	242015	IS Thermal ROR Detector/Conv./400/SS 5451EIS	
	82	241041	Optical-Thermal Detector/Conv./300/SS 2351TEM	
	81	241040	Optical Smoke Detector/Conv./300/SS 2351E	
	121	249640	Protective Cage BWS-1/D1	
	115	246010	Recessed Mounting Kit/SS RMK400	
	71	251001	Remote Indicator PA58-1	
	115	246009	Surface Mounting Kit/SS SMK400	
	84	242041	Thermal Max Detector/Conv./300/SS 4351E	
	84	242042	Thermal Max Detector/Conv./300/SS 5351TE	
	83	242040	Thermal ROR Detector/Conv./300/SS 5351E	
	121	249635	Trapezoid Steel Bracket TBH800-1	
	116	249012	Wet Base Shroud/SS WB1	

246100 Detector Relay Base/Conv./300/SS B324RL

Mounting base for automatic fire detectors Series 300 with integrated relay output, suitable for indoor surface mounting. The mounting base is designed for the connection to control panels with a 24VDC operating voltage. The relay output is activated by the alarm condition of the inserted detector and remains in the activated status as long as the alarm is not reset on the fire detection control panel. Application must comply with the LST Connection of Detectors.

Features

- ◆ Multi-useable terminals with secure screw fitting
- ◆ Auxiliary contact for the through connection of the detector line when the detector is removed
- ◆ Relay output with dry changeover contact
- ◆ Mechanical theft protection

Specifications

Operating voltage	supplied through detector line voltage
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Current consumption	1µA (quiescent), 25mA (active)
Contact rating	1A at 30VDC
Ambient temperature	-20°C to +70°C
Relative humidity	5 to 93% (no condensation)
Dimensions Ø × H	127 × 29 (mm)
Colour	cream
Weight	96g

Cross-references	Page	Art.Nr.	Name	Type
	226	249011	Detector Label BME/BEZ	
	82	241041	Optical-Thermal Detector/Conv./300/SS 2351TEM	
	81	241040	Optical Smoke Detector/Conv./300/SS 2351E	
	84	242041	Thermal Max Detector/Conv./300/SS 4351E	
	84	242042	Thermal Max Detector/Conv./300/SS 5351TE	
	83	242040	Thermal ROR Detector/Conv./300/SS 5351E	

246101 Detector Relay Base/Conv./300/SS B312RL

Mounting base for automatic fire detectors Series 300 with integrated relay output, suitable for indoor surface mounting. The mounting base is designed for the connection to control panels with a 12VDC operating voltage and must therefore not be connected to Fire Detection Control Panels Series BC06, BC016 and BC216. The relay output is activated by the alarm condition of the inserted detector and remains in the activated state as long as the operating voltage has not been (shortly) interrupted.



Features

- ◆ Multi-useable terminals with secure screw fitting
- ◆ Relay output with dry changeover contact
- ◆ Mechanical theft protection

Specifications

Operating voltage	8.5 to 15VDC
Current consumption	typ. 20µA (quiescent), 50mA (active)
Contact rating	1A at 30VDC
Ambient temperature	-20°C to +70°C
Relative humidity	5 to 93% (no condensation)
Dimensions Ø × H	127 × 29 (mm)
Colour	cream
Weight	96g

246102 Detector Relay Base/Conv./300/SS B312NL

Mounting base for automatic fire detectors Series 300 with integrated relay output, suitable for indoor surface mounting. The mounting base is designed for the connection to control panels with a 12VDC operating voltage and must therefore not be connected to Fire Detection Control Panels Series BC06, BC016 and BC216. The relay output is activated by the alarm condition of the inserted detector, both the detector and the relay output are automatically re-set several seconds after the fire alarm detection.



Features

- ◆ Multi-useable terminals with secure screw fitting
- ◆ Relay output with dry changeover contact
- ◆ Mechanical theft protection

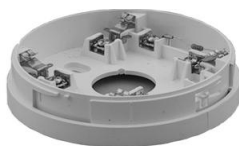
Specifications

Operating voltage	8.5 to 15VDC
Current consumption	typ. 20µA (quiescent), 50mA (active)
Contact rating	1A at 30VDC
Ambient temperature	-20°C to +70°C
Relative humidity	5 to 93% (no condensation)
Dimensions Ø × H	127 × 29 (mm)

Colour	cream
Weight	96g

246140 **Detector Base/Conv./1000/SS ECO1000BR1000**

Mounting base for automatic fire detectors Series ECO1000, suitable for indoor surface mounting.



Features

- ◆ Multi-useable terminals with secure screw fitting
- ◆ Auxiliary contact for the through connection of the detector line when the detector is removed
- ◆ Terminal for external remote indicator
- ◆ Individual detector addressing by installing an optional address module NG58-1

Specifications

Ambient temperature	-30°C to +70°C
Relative humidity	5 to 95% (no condensation)
Dimensions Ø × H	102.5 × 21 (mm)
Colour	white
Weight	44g

Cross-references	Page	Art.Nr.	Name	Type
	119	249020	Address Module/Conv. NG58-1	
	226	249011	Detector Label BME/BEZ	
	120	249044	Detector Mounting Bracket MMW1-1	
	86	241046	Optical-Thermal Detector/Conv./1000/SS ECO1002	
	85	241045	Optical Smoke Detector/Conv./1000/SS ECO1003	
	121	249640	Protective Cage BWS-1/D1	
	71	251001	Remote Indicator PA58-1	
	87	242047	Thermal Max Detector/Conv./1000/SS ECO1004T	
	88	242046	Thermal Max Detector/Conv./1000/SS ECO1005T	
	87	242045	Thermal ROR Detector/Conv./1000/SS ECO1005	
	121	249635	Trapezoid Steel Bracket TBH800-1	

246141 **Detector Relay Base/Conv./1000/SS ECO1000BREL24L**

Mounting base for automatic fire detectors Series ECO1000 with integrated relay output, suitable for indoor surface mounting. The mounting base is designed for the connection to control panels with a 24VDC operating voltage. The relay output is activated by the alarm condition of the inserted detector and remains in the activated status as long as the alarm is not reset on the fire detection control panel. Application must comply with the LST Connection of Detectors.



Features

- ◆ Multi-useable terminals with secure screw fitting
- ◆ Auxiliary contact for the through connection of the detector line when the detector is removed
- ◆ Relay output with dry changeover contact

Specifications

Operating voltage	supplied through detector line voltage
Current consumption	1µA (quiescent); 30mA (active)
Contact rating	1A at 30VDC
Ambient temperature	-30°C to +70°C
Relative humidity	5 to 93% (no condensation)
Dimensions Ø × H	102.5 × 33 (mm)
Colour	white
Weight	70g

Cross-references	Page	Art.Nr.	Name	Type
	226	249011	Detector Label BME/BEZ	

120	249044	Detector Mounting Bracket MMW1-1
86	241046	Optical-Thermal Detector/Conv./1000/SS ECO1002
85	241045	Optical Smoke Detector/Conv./1000/SS ECO1003
121	249640	Protective Cage BWS-1/D1
87	242047	Thermal Max Detector/Conv./1000/SS ECO1004T
88	242046	Thermal Max Detector/Conv./1000/SS ECO1005T
87	242045	Thermal ROR Detector/Conv./1000/SS ECO1005
121	249635	Trapezoid Steel Bracket TBH800-1

246142 Detector Relay Base/Conv./SS ECO1000BREL12L

Mounting base for automatic fire detectors Series ECO1000 with integrated relay output, suitable for indoor surface mounting. The mounting base is designed for the connection to control panels with a 12VDC operating voltage and must therefore not be connected to Fire Detection Control Panels Series BC06, BC016 and BC216.



The relay output is activated by the alarm condition of the inserted detector and remains in the activated state as long as the operating voltage has not been (shortly) interrupted.

Features

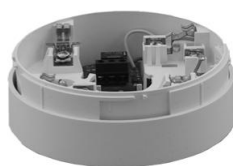
- ◆ Multi-useable terminals with secure screw fitting
- ◆ Relay output with dry changeover contact

Specifications

Operating voltage	10 to 15VDC
Current consumption	typ. 1µA (quiescent), 25mA (active)
Contact rating	1A at 30VDC
Ambient temperature	-30°C to +70°C
Relative humidity	5 to 93% (no condensation)
Dimensions Ø × H	102.5 × 33 (mm)
Colour	white
Weight	70g

246143 Detector Relay Base/Conv./SS ECO1000BREL12NL

Mounting base for automatic fire detectors Series ECO1000 with integrated relay output, suitable for indoor surface mounting. The mounting base is designed for the connection to control panels with a 12VDC operating voltage and must therefore not be connected to Fire Detection Control Panels Series BC06, BC016 and BC216.



The relay output is activated by the alarm condition of the inserted detector, both the detector and the relay output are automatically reset several seconds after the fire detection.

Features

- ◆ Multi-useable terminals with secure screw fitting
- ◆ Relay output with dry changeover contact

Specifications

Operating voltage	10 to 15VDC
Current consumption	typ. 20µA (quiescent), 30mA (active)
Contact rating	1A at 30VDC
Ambient temperature	-30°C to +70°C
Relative humidity	5 to 93% (no condensation)
Dimensions Ø × H	102.5 × 33 (mm)
Colour	white
Weight	70g

246002 Detector Base/Anal./500/200/SS B501

Mounting base for automatic fire detectors Series 500 and 200, suitable for indoor surface mounting.

Features

- ◆ Connection to the ADM loop using System Sensor/200 protocol
- ◆ Multi-useable terminals with secure screw fitting
- ◆ Terminal for external remote indicator
- ◆ Mechanical theft protection

Specifications

Ambient temperature	-30°C to +70°C
Relative humidity	0 to 95% (no condensation)
Dimensions Ø × H	102 × 20 (mm)
Colour	cream
Weight	53g

Cross-references	Page	Art.Nr.	Name	Type
	114	246006	Base Adapter/SS MZP500-1	
	226	249011	Detector Label BME/BEZ	
	120	249044	Detector Mounting Bracket MMW1-1	
	90	240013	Ionisation Smoke Detector/Anal./200/SS 1251E	
	181	241025	IS Optical Smoke Detector/Anal./200/SS 2251EIS	
	92	241020	Optical-Thermal Detector/Anal./200/SS 2251TEM	
	91	241050	Optical Laser Detector/Anal./200/SS 7251	
	90	241010	Optical Smoke Detector/Anal./200/SS ND2251EM	
	121	249640	Protective Cage BWS-1/D1	
	115	246010	Recessed Mounting Kit/SS RMK400	
	71	251001	Remote Indicator PA58-1	
	115	246009	Surface Mounting Kit/SS SMK400	
	94	242002	Thermal Detector/Anal./200/SS 5251EM	
	121	249635	Trapezoid Steel Bracket TBH800-1	
	116	249012	Wet Base Shroud/SS WB1	

246015 Detector Base/Anal./500/200/SS B501DG

The Detector Base B501DG is used for mounting of automatic fire detectors Series 500 and 200. The base is suitable for indoor surface mounting. The height of the Detector Base B501DG is increased compared to the Base B501, and is therefore suitable for thicker cables with a diameter of up to 12mm.

Features

- ◆ Connection to the ADM loop using System Sensor/200 protocol
- ◆ Multi-wire terminal with secure screw fitting
- ◆ Terminal for external remote indicator
- ◆ Mechanical theft protection

Specifications

Ambient temperature	-30°C to +70°C
Relative humidity	0 to 95% (no condensation)
Dimensions Ø × H	102 × 26 (mm)
Colour	cream
Weight	57g

Cross-references	Page	Art.Nr.	Name	Type
	114	246006	Base Adapter/SS MZP500-1	
	226	249011	Detector Label BME/BEZ	
	120	249044	Detector Mounting Bracket MMW1-1	
	90	240013	Ionisation Smoke Detector/Anal./200/SS 1251E	
	92	241020	Optical-Thermal Detector/Anal./200/SS 2251TEM	
	91	241050	Optical Laser Detector/Anal./200/SS 7251	
	90	241010	Optical Smoke Detector/Anal./200/SS ND2251EM	
	121	249640	Protective Cage BWS-1/D1	
	115	246010	Recessed Mounting Kit/SS RMK400	
	71	251001	Remote Indicator PA58-1	

115	246009	Surface Mounting Kit/SS SMK400
94	242002	Thermal Detector/Anal./200/SS 5251EM
121	249635	Trapezoid Steel Bracket TBH800-1
116	249012	Wet Base Shroud/SS WB1

246016 Detector Relay Base/Anal./500/200/SS B524RTE

The Detector Base is used for mounting of fire detectors Series 500 and 200, and includes an integrated relay output. The relay output is active as long as the detector remains in alarm condition. The application has to be in compliance with the LST Connection of Detectors.

The base is suitable for indoor surface mounting.



Features

- ◆ Connection to the ADM loop using System Sensor/200 protocol
- ◆ Multi-wire terminal with secure screw fitting
- ◆ Relay output with dry changeover contact

Specifications

Contact rating	1A at 30VDC
Ambient temperature	-10°C to +60°C
Relative humidity	10 - 93% (no condensation)
Dimensions Ø × H	102 × 36 (mm)
Colour	cream
Weight	110g

Cross-references	Page	Art.Nr.	Name	Type
	114	246006	Base Adapter/SS MZP500-1	
	226	249011	Detector Label BME/BEZ	
	120	249044	Detector Mounting Bracket MMW1-1	
	90	240013	Ionisation Smoke Detector/Anal./200/SS 1251E	
	92	241020	Optical-Thermal Detector/Anal./200/SS 2251TEM	
	91	241050	Optical Laser Detector/Anal./200/SS 7251	
	90	241010	Optical Smoke Detector/Anal./200/SS ND2251EM	
	115	246010	Recessed Mounting Kit/SS RMK400	
	115	246009	Surface Mounting Kit/SS SMK400	
	94	242002	Thermal Detector/Anal./200/SS 5251EM	
	116	249012	Wet Base Shroud/SS WB1	

246013 Isolator Detector Base/Anal./500/200/SS B524IEFT-1

Mounting base for automatic fire detectors Series 500 and 200, with integrated dual-isolator, suitable for indoor surface mounting. If a short circuit appears between two isolator modules, the defective area is separated from the ADM loop and operation of all other connected detectors and modules is guaranteed. For optimum availability, the detector zones on the ADM loop should be separated from each other by isolator modules.



Features

- ◆ Connection to the ADM loop using System Sensor/200 protocol
- ◆ Multi-useable terminals with secure screw fitting
- ◆ Terminal for external remote indicator
- ◆ Mechanical theft protection

Specifications

Current consumption	max. 100µA (quiescent)
Ambient temperature	-30°C to +70°C
Relative humidity	10 to 93% (no condensation)
Dimensions Ø × H	102 × 26 (mm)
Colour	cream
Weight	70g

Approval

VdS G200100

Cross-references	Page	Art.Nr.	Name	Type
	114	246006	Base Adapter/SS MZP500-1	
	226	249011	Detector Label BME/BEZ	
	120	249044	Detector Mounting Bracket MMW1-1	
	90	240013	Ionisation Smoke Detector/Anal./200/SS 1251E	
	92	241020	Optical-Thermal Detector/Anal./200/SS 2251TEM	
	91	241050	Optical Laser Detector/Anal./200/SS 7251	
	90	241010	Optical Smoke Detector/Anal./200/SS ND2251EM	
	121	249640	Protective Cage BWS-1/D1	
	115	246010	Recessed Mounting Kit/SS RMK400	
	71	251001	Remote Indicator PA58-1	
	115	246009	Surface Mounting Kit/SS SMK400	
	94	242002	Thermal Detector/Anal./200/SS 5251EM	
	121	249635	Trapezoid Steel Bracket TBH800-1	
	116	249012	Wet Base Shroud/SS WB1	

246018**Detector Heater Base/Anal./500/SS B524HTR**

Mounting base with heating elements for optical smoke sensors Series 500 and 200, suitable for indoor surface mounting in extremely moist areas (e.g., loading ramps, cable ducts). The heating elements are powered by an external power supply.

Features

- ◆ Connection to the ADM loop using System Sensor/200 protocol
- ◆ Multi-useable terminals with secure screw fitting
- ◆ Terminal for external remote indicator
- ◆ Mechanical theft protection

Specifications

Operating voltage for heating	20 to 30VAC/DC
Current consumption at 24V	typ. 80mA
Ambient temperature	-30°C to +60°C
Relative humidity	10 to 95% (no condensation)
Dimensions Ø × H	102 × 35 (mm)
Colour	cream
Weight	90g

Cross-references	Page	Art.Nr.	Name	Type
	90	240013	Ionisation Smoke Detector/Anal./200/SS 1251E	
	91	241050	Optical Laser Detector/Anal./200/SS 7251	
	90	241010	Optical Smoke Detector/Anal./200/SS ND2251EM	
	71	251001	Remote Indicator PA58-1	

246012**Detector Base Filtrex/Anal./500/SS B524FTXE**

Mounting base for Filtrex detector FTX-P1, suitable for indoor surface mounting.

Features

- ◆ Connection to the ADM loop using System Sensor/200 protocol
- ◆ 24VDC terminal for supplying the detector's ventilator
- ◆ Multi-useable terminals with secure screw fitting

Specifications

Ambient temperature	-10°C to +60°C
Relative humidity	0 to 95% (no condensation)
Dimensions Ø × H	102 × 35 (mm)
Colour	cream

Weight 91g

Cross-references	Page	Art.Nr.	Name	Type
	94	241019	Optical Filtrex Smoke Detector/Anal./500/SS FTX-P1	
	121	249640	Protective Cage BWS-1/D1	
	121	249635	Trapezoid Steel Bracket TBH800-1	

246113**Zonal Display Unit/Conv./300/SS S300ZDU**

The Zonal Display Unit S300ZDU allows for the numerical display of the activated detectors' addresses on a conventional detector line built from Series 300 fire detectors. If more than one detector is in the alarm state, the addresses are automatically scrolled. In addition, the zonal display unit detects and displays wiring errors between control panel and zonal display unit as well as short circuits in the detector line.

Features

- ◆ Multiple alarm display
- ◆ 4-digit display
- ◆ Remote installation (always before the first detector)

Specifications

Operating voltage	supplied through detector line voltage
Current consumption	typ. 100µA (own consumption without detector)
Ambient temperature	-10°C to +50°C
Relative humidity	5 to 95% (no condensation)
Dimensions W × H × D	137 × 132 × 40 (mm)
Colour	cream
Weight	170g

Cross-references	Page	Art.Nr.	Name	Type
	82	241041	Optical-Thermal Detector/Conv./300/SS 2351TEM	
	81	241040	Optical Smoke Detector/Conv./300/SS 2351E	
	84	242041	Thermal Max Detector/Conv./300/SS 4351E	
	84	242042	Thermal Max Detector/Conv./300/SS 5351TE	
	83	242040	Thermal ROR Detector/Conv./300/SS 5351E	

246111**Remote Program and Test Unit/Conv./300/SS S300RPTU**

Hand-held programming device for setting and reading the parameters of System Sensor Series 300 detectors. The device can exchange data with Series 300 detectors either over short distances or, combined with the Satellite Unit for Remote Programming S300SAT, over distances up to 4.5m. In the Satellite Unit for Remote Programming, data and time can be set. This date information can be stored as timestamp of the latest maintenance date in the maintained detector.

Features

- ◆ Setting of date and time in the device
- ◆ Setting of the detector address
- ◆ Setting of the response sensitivity (only with 2351E and 2351TEM)
- ◆ Setting of the maintenance date
- ◆ Display of the detector contamination (only with 2351E and 2351TEM)
- ◆ Display of the detector status (separately for smoke and temperature value with 2351TEM)
- ◆ Display of the latest maintenance date
- ◆ Function test (test activation) of Series 300 detectors

Specifications

Operating voltage	4.5VDC (3 × 1.5V type AAA batteries)
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Ambient temperature	-10°C to +50°C
Relative humidity	5 to 95% (no condensation)
Dimensions L × W × H	128 × 58 × 20 (mm)
Weight	100g

Cross-references	Page	Art.Nr.	Name	Type
	82	241041	Optical-Thermal Detector/Conv./300/SS 2351TEM	
	81	241040	Optical Smoke Detector/Conv./300/SS 2351E	
	84	242041	Thermal Max Detector/Conv./300/SS 4351E	
	84	242042	Thermal Max Detector/Conv./300/SS 5351TE	
	83	242040	Thermal ROR Detector/Conv./300/SS 5351E	

246112 Satellite Unit for Remote Programming/Conv./300/SS S300SAT

The Satellite Unit for Remote Programming is used to exchange data between the Remote Program and Test Unit S300RPTU and System Sensor Series 300 detectors and is attached to the ready-to-operate detector. The Satellite Unit for Remote Programming can be applied with a Telescopic Pole. Prior to first operation, the Satellite Unit for Remote Programming must be synchronised with the Remote Program and Test Unit.



Features

- ◆ Locks onto the detector in a defined position
- ◆ Outside located switch and status LED
- ◆ Batteries included in the device

Specifications

Operating voltage	18VDC (2 × 9V block batteries)
Ambient temperature	-10°C to +50°C
Relative humidity	5 to 95% (no condensation)
Dimensions Ø × H	106 × 105 (mm)
Colour	black
Weight	230g (incl. batteries)

Cross-references	Page	Art.Nr.	Name	Type
	82	241041	Optical-Thermal Detector/Conv./300/SS 2351TEM	
	81	241040	Optical Smoke Detector/Conv./300/SS 2351E	
	84	242041	Thermal Max Detector/Conv./300/SS 4351E	
	84	242042	Thermal Max Detector/Conv./300/SS 5351TE	
	83	242040	Thermal ROR Detector/Conv./300/SS 5351E	

246150 Remote Test Unit/Conv./300/1000/SS ECO1000RTU

Hand-held laser test unit for easy test activation of System Sensor Series 300 and ECO1000 detectors.



Features

- ◆ Range of several metres
- ◆ Simple handling due to visible laser beam

Specifications

Operating voltage	6VDC (battery type V11GA)
Dimensions L × W × H	82 × 30 × 15 (mm)
Weight	30g

Cross-references	Page	Art.Nr.	Name	Type
	114	249212	Battery for ECO1000RTU 6V-V11GA	
	86	241046	Optical-Thermal Detector/Conv./1000/SS ECO1002	
	82	241041	Optical-Thermal Detector/Conv./300/SS 2351TEM	
	85	241045	Optical Smoke Detector/Conv./1000/SS ECO1003	
	81	241040	Optical Smoke Detector/Conv./300/SS 2351E	

87	242047	Thermal Max Detector/Conv./1000/SS ECO1004T
88	242046	Thermal Max Detector/Conv./1000/SS ECO1005T
84	242041	Thermal Max Detector/Conv./300/SS 4351E
84	242042	Thermal Max Detector/Conv./300/SS 5351TE
87	242045	Thermal ROR Detector/Conv./1000/SS ECO1005
83	242040	Thermal ROR Detector/Conv./300/SS 5351E

249212 Battery for ECO1000RTU 6V-V11GA

The 6V battery is used for supply of the Remote Test Unit ECO1000RTU.

ATTENTION: the remote test unit exists in two different designs, which require different types of batteries. Please pay attention to the type and dimensions of the battery when you order.

Features

- ◆ High quality alkaline manganese battery
- ◆ Low self-discharge
- ◆ Long lifespan

Specifications

Dimensions L × Ø 16 × 10 (mm)

Cross-references	Page	Art.Nr.	Name	Type
	113	246150	Remote Test Unit/Conv./300/1000/SS ECO1000RTU	

249214 Battery for ECO1000RTU 6V-476A

The 6V battery is used for supply of the Remote Test Unit ECO1000RTU.

ATTENTION: the remote test unit exists in two different designs, which require different types of batteries. Please pay attention to the type and dimensions of the battery when you order.

Features

- ◆ High quality alkaline manganese battery
- ◆ Low self-discharge
- ◆ Long lifespan

Specifications

Dimensions L × Ø 25 × 13 (mm)

Cross-references	Page	Art.Nr.	Name	Type
	113	246150	Remote Test Unit/Conv./300/1000/SS ECO1000RTU	

246006 Base Adapter/SS MZP500-1

Plastic plate used in addition to detector base B501, B501DG, B401RM, B524IEFT-1, B524HTR or B524RTE, for securely covering the mounting area and for compensating an uneven surface.



Specification

Dimensions Ø × H 103 × 5 (mm)
 Colour cream
 Weight 50g

Cross-references	Page	Art.Nr.	Name	Type
	109	246002	Detector Base/Anal./500/200/SS B501	
	109	246015	Detector Base/Anal./500/200/SS B501DG	
	105	246008	Detector Base/Conv./400/100/300/SS B401RM	
	111	246018	Detector Heater Base/Anal./500/SS B524HTR	
	110	246016	Detector Relay Base/Anal./500/200/SS B524RTE	
	110	246013	Isolator Detector Base/Anal./500/200/SS B524IEFT-1	

246009 Surface Mounting Kit/SS SMK400

Supplement base in addition to detector bases B501, B501DG, B401RM, B524IEFT-1, B524FTXE, B524HTR or B524RTE, for surface mounting and insertion of installation tubes or thick cables, prepared for PG screw connections.



Specifications

Dimensions Ø × H	103 × 34 (mm)
Colour	cream
Weight	90g

Cross-references	Page	Art.Nr.	Name	Type
	109	246002	Detector Base/Anal./500/200/SS B501	
	109	246015	Detector Base/Anal./500/200/SS B501DG	
	105	246008	Detector Base/Conv./400/100/300/SS B401RM	
	111	246012	Detector Base Filtrex/Anal./500/SS B524FTXE	
	111	246018	Detector Heater Base/Anal./500/SS B524HTR	
	110	246016	Detector Relay Base/Anal./500/200/SS B524RTE	
	110	246013	Isolator Detector Base/Anal./500/200/SS B524IEFT-1	

246010 Recessed Mounting Kit/SS RMK400

Mounting accessory for detector bases of type B501, B501DG, B401RM, B524IEFT-1, B524HTR or B524RTE, for flush mounting in false ceilings.



Specifications

Dimensions Ø × H	144 × 40 (mm)
Colour	cream
Weight	90g

Cross-references	Page	Art.Nr.	Name	Type
	109	246002	Detector Base/Anal./500/200/SS B501	
	109	246015	Detector Base/Anal./500/200/SS B501DG	
	105	246008	Detector Base/Conv./400/100/300/SS B401RM	
	111	246018	Detector Heater Base/Anal./500/SS B524HTR	
	110	246016	Detector Relay Base/Anal./500/200/SS B524RTE	
	110	246013	Isolator Detector Base/Anal./500/200/SS B524IEFT-1	

249012 Wet Base Shroud/SS WB1

Accessory for mounting B401RM, B501, B501DG, B524IEFT-1, B524FTXE, B524HTR or B524RTE detector bases in damp locations, prepared for PG screw connections.

Specifications

Dimensions Ø × H	105 × 70 (mm)
Colour	cream
Weight	200g

Cross-references	Page	Art.Nr.	Name	Type
	109	246002	Detector Base/Anal./500/200/SS B501	
	109	246015	Detector Base/Anal./500/200/SS B501DG	
	105	246008	Detector Base/Conv./400/100/300/SS B401RM	
	111	246012	Detector Base Filtrex/Anal./500/SS B524FTXE	
	111	246018	Detector Heater Base/Anal./500/SS B524HTR	
	110	246016	Detector Relay Base/Anal./500/200/SS B524RTE	
	110	246013	Isolator Detector Base/Anal./500/200/SS B524IEFT-1	

246017 Cover Plate for Base Bx01/Bx24 BC-Bx01

The plate serves for covering detector base Series 100, 200, 300, 400 or 500, if the detector is permanently removed.

Cross-references	Page	Art.Nr.	Name	Type
	109	246002	Detector Base/Anal./500/200/SS B501	
	109	246015	Detector Base/Anal./500/200/SS B501DG	
	105	246008	Detector Base/Conv./400/100/300/SS B401RM	
	111	246012	Detector Base Filtrex/Anal./500/SS B524FTXE	
	111	246018	Detector Heater Base/Anal./500/SS B524HTR	
	110	246016	Detector Relay Base/Anal./500/200/SS B524RTE	
	105	246100	Detector Relay Base/Conv./300/SS B324RL	
	110	246013	Isolator Detector Base/Anal./500/200/SS B524IEFT-1	

249109 Base for Mounting Plate for M200/SS M200E-PMB

Attachable mounting base for plate mounting of System Sensor Series M200 modules. The module can thus be mounted upright on every even surface.

Specifications

Ambient temperature	-20°C to +60°C
Dimensions L × W × H	85 × 25 × 22 (mm)
Colour	cream
Weight	10g

Cross-references	Page	Art.Nr.	Name	Type
	98	249103	Control Module 1xSurv.Out/Anal./200/SS M201E	
	100	249104	Conventional Zone Module/Anal./200/SS M210E-CZ	
	97	249102	Module 2xSurv.In 1xRel.Out/Anal./200/SS M221E	
	96	249100	Monitor Module 1xSurv.In/Anal./200/SS M210E	

249110 Base for Carrier Rail for M200/SS M200E-DIN

Attachable mounting base for DIN rail mounting of System Sensor Series M200 modules. The module can thus be mounted (snapped on) upright on standardised 35mm top-hat rails.

Specifications

Ambient temperature	-20°C to +60°C
Dimensions L × W × H	85 × 25 × 22 (mm)
Colour	cream
Weight	10g

Cross-references	Page	Art.Nr.	Name	Type
	98	249103	Control Module 1xSurv.Out/Anal./200/SS M201E	
	100	249104	Conventional Zone Module/Anal./200/SS M210E-CZ	
	97	249102	Module 2xSurv.In 1xRel.Out/Anal./200/SS M221E	
	96	249100	Monitor Module 1xSurv.In/Anal./200/SS M210E	
	96	249101	Monitor Module 2xSurv.In/Anal./200/SS M220E	

249108 Surface Mounting Box for M200/SS M200SMB

The plastic mounting box is designed for the surface mounting of a module Series M200. The box is prepared for wall mounting.

Specifications

Ambient temperature	-20°C to +60°C
Dimensions L × W × H	132 × 137 × 48 (mm)
Colour	cream/transparent smoke-coloured
Weight	235g

Cross-references	Page	Art.Nr.	Name	Type
	98	249103	Control Module 1xSurv.Out/Anal./200/SS M201E	
	100	249104	Conventional Zone Module/Anal./200/SS M210E-CZ	
	97	249102	Module 2xSurv.In 1xRel.Out/Anal./200/SS M221E	
	96	249100	Monitor Module 1xSurv.In/Anal./200/SS M210E	
	96	249101	Monitor Module 2xSurv.In/Anal./200/SS M220E	

249111 Surface Mounting Box for MS200/SS M200SMB-KO

The plastic mounting box is designed for the surface mounting of a module Series M200. A protected cable entrance is possible with the help of 5 integrated cable glands.

Specifications

Ambient temperature	-20°C to +60°C
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Dimensions L × W × H 132 × 137 × 48 (mm)
 Colour cream/transparent smoke-coloured
 Weight 250g

Cross-references	Page	Art.Nr.	Name	Type
	98	249103	Control Module 1xSurv.Out/Anal./200/SS M201E	
	100	249104	Conventional Zone Module/Anal./200/SS M210E-CZ	
	97	249102	Module 2xSurv.In 1xRel.Out/Anal./200/SS M221E	
	96	249100	Monitor Module 1xSurv.In/Anal./200/SS M210E	
	96	249101	Monitor Module 2xSurv.In/Anal./200/SS M220E	

249117 Surface Mounting Box for Multimodule/SS M200-SMB-MM

Powder coated sheet steel mounting box for System Sensor Multi Modules IM-10 or CR-6. On both long sides, 7 knock-outs (Ø 19mm) for PG-screw connections are available.



Specifications

Dimensions L × W × H 285 × 225 × 62 (mm)
 Colour cream
 Weight 2kg

Cross-references	Page	Art.Nr.	Name	Type
	99	249116	Control Module 6xRel.Out/Anal./200/SS CR-6	
	97	249115	Monitor Module 10xSurv.In/Anal./200/SS IM-10	

249004 Surface Mounting Box for M500/SS SMB500

The plastic mounting box is designed for the surface mounting of a module Series 500.



Specifications

Dimensions W × H × D 125 × 124 × 55 (mm)
 Colour cream
 Weight 155g

Cross-references	Page	Art.Nr.	Name	Type
	100	249045	Conventional Zone Module/Anal./500/SS M512ME	
	182	228007	Protocol Interface/Anal./200/SS IST200	

249014 Power Supply Unit for Detector Heater MH-TR1

The power supply unit serves for generating the heating voltage for the detector heaters MH500-1, MH60-1 and MH95-1.

Features

- ◆ Power supply for up to ten detector heaters
- ◆ Optical indication for operation and fault
- ◆ Surveilled heating voltage, malfunction can be forwarded to the fire detection control panel as fault message
- ◆ Wall-mount cabinet for surface mounting

Specifications

Mains voltage	230VAC +10/-15%, 50Hz
Power consumption	200VA
Heating voltage	40VAC
Output current	5A
Ambient temperature	-5°C to +50°C
Dimensions W × H × D	200 × 300 × 155 (mm)
Colour	light grey, RAL 7035
Weight	9kg

Cross-references	Page	Art.Nr.	Name	Type
	119	249027	Detector Heater/Anal./500/200/SS MH500-1	
	155	246033	Detector Heater/Anal./Apo MH95-1	
	154	246032	Detector Heater/Conv./60/65/Apo MH60-1	

249027 Detector Heater/Anal./500/200/SS MH500-1

Mounting base with included heating for the application of System Sensor Series 500 or 200 automatic smoke detectors in extremely moist areas (e.g., loading ramps, cable ducts). A detector base with area heater and connection terminals with a remote indicator are mounted together on a mounting plate.

Features

- ◆ Connection terminals for all incoming and outgoing cables
- ◆ Detector base pre-wired on the terminals
- ◆ Additional remote indicator on the connection terminals

Specifications

Operating voltage	max. 48VAC
Power consumption	12W
Dimensions L × W × H	310 × 175 × 120 (mm)
Weight	1.3kg

Cross-references	Page	Art.Nr.	Name	Type
	90	240013	Ionisation Smoke Detector/Anal./200/SS 1251E	
	91	241050	Optical Laser Detector/Anal./200/SS 7251	
	90	241010	Optical Smoke Detector/Anal./200/SS ND2251EM	
	119	249014	Power Supply Unit for Detector Heater MH-TR1	

249020 Address Module/Conv. NG58-1

Electronic component for the application in addressable conventional technology, used for individual or group identification of System Sensor Series FC600, 100, 300 or ECO1000

automatic conventional detectors as well as manual call points, special detectors and other contact-activating devices.



Features

- ◆ Double-digit indication of the detector number and text assignment on the display of a fire detection control panel
- ◆ Detector number setting from 0 to 63
- ◆ Open collector output for triggering a remote indicator
- ◆ Alternatively applicable for individual detector addressing or identification of a detector group

Specifications

Current consumption at 24V	18mA (active)
Ambient temperature	-5°C to +50°C
Dimensions L × W × H	32 × 19 × 5 (mm) without leads
Weight	50g

Cross-references	Page	Art.Nr.	Name	Type
	35	214020	Conventional Detector Interface GIF8-1	
	107	246140	Detector Base/Conv./1000/SS ECO1000BR1000	
	105	246008	Detector Base/Conv./400/100/300/SS B401RM	
	79	246070	Detector Base/FC600 FC600/BR	
	8	210110	Detector Zone Extension MGE8-1	
	7	210122	Fire and Evacuation Panel BC016-2/INT1	
	6	210102	Fire Detection Control Panel BC016-1/INT1	

249044

Detector Mounting Bracket MMW1-1

Metal bracket for the lateral mounting (e.g., false floors, elevator shafts, shelves) of an automatic fire detector. The bracket is provided with all necessary thread holes for easy mounting of a detector base.



Specifications

Dimensions L × W × H	130 × 120 × 40 (mm)
Weight	225g

Cross-references	Page	Art.Nr.	Name	Type
	109	246002	Detector Base/Anal./500/200/SS B501	
	109	246015	Detector Base/Anal./500/200/SS B501DG	
	151	246025	Detector Base/Anal./Apo ASA-45681-210	
	107	246140	Detector Base/Conv./1000/SS ECO1000BR1000	
	105	246008	Detector Base/Conv./400/100/300/SS B401RM	
	149	246021	Detector Base/Conv./60/65/Apo GSA-45681-200	
	150	246042	Detector Base/Conv./ORBIS/Apo MB-00001	
	79	246070	Detector Base/FC600 FC600/BR	
	111	246012	Detector Base Filtrex/Anal./500/SS B524FTXE	
	79	246071	Detector Base with Diode/FC600 FC600/BRD	
	111	246018	Detector Heater Base/Anal./500/SS B524HTR	
	110	246016	Detector Relay Base/Anal./500/200/SS B524RTE	
	152	246037	Detector Relay Base/Anal./XP95/DISC/Apo ASR-45681-242	
	107	246141	Detector Relay Base/Conv./1000/SS ECO1000BREL24L	
	150	246041	Detector Relay Base/Conv./ORBIS/Apo RB-10004	
	80	246072	Detector Relay Base/FC600 FC600/BREL	
	110	246013	Isolator Detector Base/Anal./500/200/SS B524IEFT-1	
	151	246036	Isolator Detector Base/Anal./Apo AISA-45681-321	
	116	249012	Wet Base Shroud/SS WB1	

249635 Trapezoid Steel Bracket TBH800-1

The steel sheet bracket is used for the mounting of fire detectors on trapezoid ceilings.

Specifications

Dimensions L × W × H 35 × 95 × 95 (mm)
Weight 150g

Cross-references	Page	Art.Nr.	Name	Type
	109	246002	Detector Base/Anal./500/200/SS B501	
	109	246015	Detector Base/Anal./500/200/SS B501DG	
	151	246025	Detector Base/Anal./Apo ASA-45681-210	
	107	246140	Detector Base/Conv./1000/SS ECO1000BR1000	
	105	246008	Detector Base/Conv./400/100/300/SS B401RM	
	149	246021	Detector Base/Conv./60/65/Apo GSA-45681-200	
	150	246042	Detector Base/Conv./ORBIS/Apo MB-00001	
	79	246070	Detector Base/FC600 FC600/BR	
	111	246012	Detector Base Filtrex/Anal./500/SS B524FTXE	
	79	246071	Detector Base with Diode/FC600 FC600/BRD	
	111	246018	Detector Heater Base/Anal./500/SS B524HTR	
	110	246016	Detector Relay Base/Anal./500/200/SS B524RTE	
	152	246037	Detector Relay Base/Anal./XP95/DISC/Apo ASR-45681-242	
	107	246141	Detector Relay Base/Conv./1000/SS ECO1000BREL24L	
	150	246041	Detector Relay Base/Conv./ORBIS/Apo RB-10004	
	80	246072	Detector Relay Base/FC600 FC600/BREL	
	110	246013	Isolator Detector Base/Anal./500/200/SS B524IEFT-1	
	151	246036	Isolator Detector Base/Anal./Apo AISA-45681-321	
	116	249012	Wet Base Shroud/SS WB1	

249640 Protective Cage BWS-1/D1

Steel web cage acting as mechanical protection against mechanical impacts (e.g., ball shots) and unauthorised removal of detectors.

Specifications

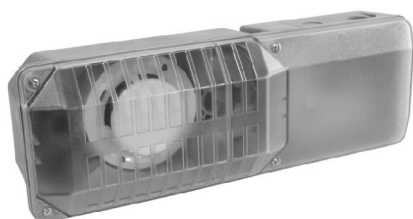
Material steel wire ST37
Dimensions Ø × H 108 × 135 (mm)
Colour white
Weight 132g

Cross-references	Page	Art.Nr.	Name	Type
	109	246002	Detector Base/Anal./500/200/SS B501	
	109	246015	Detector Base/Anal./500/200/SS B501DG	
	151	246025	Detector Base/Anal./Apo ASA-45681-210	
	107	246140	Detector Base/Conv./1000/SS ECO1000BR1000	
	105	246008	Detector Base/Conv./400/100/300/SS B401RM	
	149	246021	Detector Base/Conv./60/65/Apo GSA-45681-200	
	150	246042	Detector Base/Conv./ORBIS/Apo MB-00001	
	111	246012	Detector Base Filtrex/Anal./500/SS B524FTXE	
	152	246037	Detector Relay Base/Anal./XP95/DISC/Apo ASR-45681-242	

107	246141	Detector Relay Base/Conv./1000/SS ECO1000BREL24L
150	246041	Detector Relay Base/Conv./ORBIS/Apo RB-10004
110	246013	Isolator Detector Base/Anal./500/200/SS B524IEFT-1
151	246036	Isolator Detector Base/Anal./Apo AISA-45681-321

244009 Duct Detector/400/OM DH400P

The Duct Detector DH400P monitors ventilation ducts or air conditioning channels. A small amount of air is conducted into the detector housing via the air inlet pipe, directed to the optical smoke detector, and is released into the ventilation duct again via the air escape pipe.



The duct detector consists of a plastic housing with transparent cover and the Optical Smoke Detector 2151E-LC. The air escape pipe is already integrated in the plastic housing. The air inlet pipe is not provided with the duct detector and has to be selected according to the duct size (see cross-references). The alarm is transmitted in addressable conventional technology.

Features

- ◆ Transparent cover for optical recognition of detector activation
- ◆ Individual detector identification through connection of an optional Address Module NG58-1
- ◆ Approved for wind speeds from 1.5m/s to 20m/s

Specifications

Operating voltage	supplied through detector line voltage
Current consumption at 24V	typ. 100µA (quiescent)
Ambient temperature	0°C to +50°C
Relative humidity	10 - 93% (no condensation)
Dimensions W × H × D	380 × 125 × 100 (mm)
Colour	grey
Weight	2.0kg

Cross-references	Page	Art.Nr.	Name	Type
	123	244005	Duct Detector Pipe/0.3-0.6M/SS ST-1.5	
	124	244010	Duct Detector Pipe/0.6-1.2M/SS ST-3	
	124	244011	Duct Detector Pipe/1.2-2.4M/SS ST-5	
	124	244012	Duct Detector Pipe/2.4-3.7M/SS ST-10	

241038 Optical Smoke Detector/Conv./100/SS 2151E-LC

The Optical Smoke Detector 2151E-LC operates with an optical sensing chamber on the principle of scattered light. The alarm is transmitted to the fire detection control panel in addressable conventional technology. The optical smoke detector is accommodated in a flat plastic housing and is exclusively designed for the installation in the Duct Detector DH400P.



Features

- ◆ Individual detector identification through connection of an optional Address Module NG58-1
- ◆ Mechanical theft protection
- ◆ Insect screen
- ◆ Function testing possible by test activation via magnet
- ◆ Service connector for testing with the Test Module MOD400R

Specifications

Operating voltage	supplied through detector line voltage
Current consumption	typ. 100µA (quiescent)
Ambient temperature	0°C to +50°C
Relative humidity	10 - 93% (no condensation)

Dimensions Ø × H	103 × 42 (mm)
Colour	cream
Weight	104g
Approval	0832-CPD-0058

Cross-references	Page	Art.Nr.	Name	Type
	122	244009	Duct Detector/400/OM DH400P	

244008**Duct Detector Housing/Anal./500/200/SS DH500**

Elegant plastic housing with detector base for application on the ADM loop using System Sensor/200 protocol, but **without** detector, for the surveillance of ventilation ducts. The built-in detector base is suitable for Series 500 smoke sensors. The air escape pipe is integrated into the plastic housing. The air inlet pipe is not provided with the duct detector and has to be selected according to the duct size (see cross-references).

Features

- ◆ Inspection window for optical identification of a detector activation
- ◆ Terminal for external remote indicator
- ◆ Approved for wind speeds of 2.5m/s to 2.5m/s

Specifications

Ambient temperature	-10°C to +60°C
Dimensions W × H × D	367 × 127 × 102 (mm)
Colour	grey
Weight	1.9kg

Cross-references	Page	Art.Nr.	Name	Type
	123	244005	Duct Detector Pipe/0.3-0.6M/SS ST-1.5	
	124	244010	Duct Detector Pipe/0.6-1.2M/SS ST-3	
	124	244011	Duct Detector Pipe/1.2-2.4M/SS ST-5	
	124	244012	Duct Detector Pipe/2.4-3.7M/SS ST-10	
	90	240013	Ionisation Smoke Detector/Anal./200/SS 1251E	
	91	241050	Optical Laser Detector/Anal./200/SS 7251	
	90	241010	Optical Smoke Detector/Anal./200/SS ND2251EM	

244005**Duct Detector Pipe/0.3-0.6M/SS ST-1.5**

Air inlet pipe with standard air intake drills, suitable for Duct Detector Housing/Conv./400/SS DH400P and Duct Detector Housing/Anal./500/200/SS DH500, applicable for ventilation ducts with a depth of 0.3 to 0.6m.



Cross-references	Page	Art.Nr.	Name	Type
	122	244009	Duct Detector/400/OM DH400P	
	123	244008	Duct Detector Housing/Anal./500/200/SS DH500	

244010 Duct Detector Pipe/0.6-1.2M/SS ST-3

Air inlet pipe with standard air intake drills, suitable for Duct Detector Housing/Conv./400/SS DH400P and Duct Detector Housing/Anal./500/200/SS DH500, applicable for ventilation ducts with a depth of 0.6 to 1.2m.



Cross-references	Page	Art.Nr.	Name	Type
	122	244009	Duct Detector/400/OM DH400P	
	120	244018	Lüftungsleitungsmeldergehäuse DH400-E	

244011 Duct Detector Pipe/1.2-2.4M/SS ST-5

Air inlet pipe with standard air intake drills, suitable for Duct Detector Housing/Conv./400/SS DH400P and Duct Detector Housing/Anal./500/200/SS DH500, applicable for ventilation ducts with a depth of 1.2 to 2.4m.



Cross-references	Page	Art.Nr.	Name	Type
	122	244009	Duct Detector/400/OM DH400P	
	123	244008	Duct Detector Housing/Anal./500/200/SS DH500	

244012 Duct Detector Pipe/2.4-3.7M/SS ST-10

Air inlet pipe with standard air intake drills, suitable for Duct Detector Housing/Conv./400/SS DH400P and Duct Detector Housing/Anal./500/200/SS DH500, applicable for ventilation ducts with a depth of 2.4 to 3.7m.



Cross-references	Page	Art.Nr.	Name	Type
	122	244009	Duct Detector/400/OM DH400P	
	123	244008	Duct Detector Housing/Anal./500/200/SS DH500	

249047 Replacement Filter for Filtrex RF-FTX

Replacement filter for the easy replacement of a contaminated filter of an Optical Filtrex Smoke Detector/Anal./500/SS.



Specifications

Dimensions Ø × H 80 × 19 (mm)

Colour cream

Weight 10g

<u>Cross-references</u>	<u>Page</u>	<u>Art.Nr.</u>	<u>Name</u>	<u>Type</u>
	94	241019	Optical Filtrex Smoke Detector/Anal./500/SS FTX-P1	

14

Conventional Detectors Series 65/ORBIS

240027

Ionisation Smoke Detector/Conv./65/Apo GI-55000-217

Smoke detector operating on the ionisation principle in addressable conventional technology, consisting of a sensing and reference chamber (dual chamber principle) for automatic compensation of environmental influences and of extra flat design, suitable for indoor mounting.

Features

- ◆ Sealed electronics prevents false alarms caused by the environment
- ◆ Individual detector addressing by installing an optional address module NG60-1
- ◆ Output for external remote indicator
- ◆ Mechanical theft protection
- ◆ Insect screen

Specifications

Operating voltage	supplied through detector line voltage
Current consumption	typ. 28µA (quiescent)
Ambient temperature	-20°C to +60°C
Relative humidity	0 to 95% (no condensation)
Radioactive compound	Am241
Dimensions Ø × H	100 × 42 (mm)
Colour	white
Weight	102g
Approval	VdS G200075

Cross-references	Page	Art.Nr.	Name	Type
	155	249028	Address Module/Conv./Apo NG60-1	
	35	214020	Conventional Detector Interface GIF8-1	
	149	246035	Detector Base/Conv./60/65/Apo 45681-251	
	149	246021	Detector Base/Conv./60/65/Apo GSA-45681-200	
	8	210110	Detector Zone Extension MGE8-1	
	7	210122	Fire and Evacuation Panel BC016-2/INT1	
	6	210102	Fire Detection Control Panel BC016-1/INT1	
	1	210205	Fire Detection Control Panel BC06-1/INT1	
	3	210209	Fire Detection Control Panel BC06-2/INT1	
	71	251001	Remote Indicator PA58-1	
	4	210210	Zone Extension Board ZEB2-1	

241026

Optical Smoke Detector/Conv./65/Apo GO-55000-317

Smoke detector operating on the light scatter principle in addressable conventional technology, with an optical sensing chamber and of extra flat design, suitable for indoor mounting.

Features

- ◆ Sealed electronics prevents false alarms caused by the environment
- ◆ Individual detector addressing by installing an optional address module NG60-1
- ◆ Output for external remote indicator
- ◆ Mechanical theft protection
- ◆ Insect screen

Specifications

Operating voltage	supplied through detector line voltage
Current consumption	typ. 40µA (quiescent)
Ambient temperature	-20°C to +60°C (no condensation or icing)
Relative humidity	0 to 95% (no condensation)

Dimensions Ø × H	100 × 42 (mm)
Colour	white
Weight	100g
Approval	VdS G200017

Cross-references	Page	Art.Nr.	Name	Type
	155	249028	Address Module/Conv./Apo NG60-1	
	35	214020	Conventional Detector Interface GIF8-1	
	149	246035	Detector Base/Conv./60/65/Apo 45681-251	
	149	246021	Detector Base/Conv./60/65/Apo GSA-45681-200	
	8	210110	Detector Zone Extension MGE8-1	
	7	210122	Fire and Evacuation Panel BC016-2/INT1	
	6	210102	Fire Detection Control Panel BC016-1/INT1	
	1	210205	Fire Detection Control Panel BC06-1/INT1	
	3	210209	Fire Detection Control Panel BC06-2/INT1	
	71	251001	Remote Indicator PA58-1	
	4	210210	Zone Extension Board ZEB2-1	

242024 Thermal ROR Detector/Conv./65/Apo GD-55000-122

Heat detector operating on the rate-of-rise heat detection principle in addressable conventional technology, combined maximum/rate-of-rise detector classified as AIR (maximum room height 7.5 m), in extra-flat design, suitable for indoor mounting.



Features

- ◆ Sealed electronics prevents false alarms caused by the environment
- ◆ Individual detector addressing by installing an optional address module NG60-1
- ◆ Output for external remote indicator
- ◆ Mechanical theft protection

Specifications

Operating voltage	supplied through detector line voltage
Current consumption	typ. 45µA (quiescent)
Alarm temperature	57°C (maximum-heat component)
Operating temperature	max. +50°C
Ambient temperature	-20°C to +90°C (no condensation or icing)
Relative humidity	0 to 95% (no condensation)
Dimensions Ø × H	100 × 42 (mm)
Colour	white
Weight	80g
Approval	VdS G200059

Cross-references	Page	Art.Nr.	Name	Type
	155	249028	Address Module/Conv./Apo NG60-1	
	35	214020	Conventional Detector Interface GIF8-1	
	149	246035	Detector Base/Conv./60/65/Apo 45681-251	
	149	246021	Detector Base/Conv./60/65/Apo GSA-45681-200	
	8	210110	Detector Zone Extension MGE8-1	
	7	210122	Fire and Evacuation Panel BC016-2/INT1	
	6	210102	Fire Detection Control Panel BC016-1/INT1	
	1	210205	Fire Detection Control Panel BC06-1/INT1	
	3	210209	Fire Detection Control Panel BC06-2/INT1	
	71	251001	Remote Indicator PA58-1	
	4	210210	Zone Extension Board ZEB2-1	

242025 Thermal ROR Detector/Conv./65/Apo GD-55000-127

Heat detector operating on the rate-of-rise heat detection principle in addressable conventional technology, combined maximum/rate-of-rise detector classified as BR (maximum room height 6m), in extra-flat design, suitable for indoor mounting.



Features

- ◆ Sealed electronics prevents false alarms caused by the environment
- ◆ Individual detector addressing by installing an optional address module NG60-1
- ◆ Output for external remote indicator
- ◆ Mechanical theft protection

Specifications

Operating voltage	supplied through detector line voltage
Current consumption	typ. 45µA (quiescent)
Alarm temperature	78°C (maximum-heat component)
Operating temperature	max. +65°C
Ambient temperature	-20°C to +90°C (no condensation or icing)
Relative humidity	0 to 95% (no condensation)
Dimensions Ø × H	100 × 42 (mm)
Colour	white
Weight	80g
Approval	VdS G200060

Cross-references	Page	Art.Nr.	Name	Type
	155	249028	Address Module/Conv./Apo NG60-1	
	35	214020	Conventional Detector Interface GIF8-1	
	149	246035	Detector Base/Conv./60/65/Apo 45681-251	
	149	246021	Detector Base/Conv./60/65/Apo GSA-45681-200	
	8	210110	Detector Zone Extension MGE8-1	
	7	210122	Fire and Evacuation Panel BC016-2/INT1	
	6	210102	Fire Detection Control Panel BC016-1/INT1	
	1	210205	Fire Detection Control Panel BC06-1/INT1	
	3	210209	Fire Detection Control Panel BC06-2/INT1	
	71	251001	Remote Indicator PA58-1	
	4	210210	Zone Extension Board ZEB2-1	

242026

Thermal ROR Detector/Conv./65/Apo GD-55000-132

Heat detector operating on the rate-of-rise heat detection principle in addressable conventional technology, combined maximum/rate-of-rise detector classified as CR (maximum room height 6m), in extra-flat design, suitable for indoor mounting.



Features

- ◆ Sealed electronics prevents false alarms caused by the environment
- ◆ Individual detector addressing by installing an optional address module NG60-1
- ◆ Output for external remote indicator
- ◆ Mechanical theft protection

Specifications

Operating voltage	supplied through detector line voltage
Current consumption	typ. 45µA (quiescent)
Alarm temperature	90°C (maximum-heat component)
Operating temperature	max. +80°C
Ambient temperature	-20°C to +90°C (no condensation or icing)
Relative humidity	0 to 95% (no condensation)
Dimensions Ø × H	100 × 42 (mm)
Colour	white
Weight	80g
Approval	VdS G200061

Cross-references	Page	Art.Nr.	Name	Type
	155	249028	Address Module/Conv./Apo NG60-1	
	35	214020	Conventional Detector Interface GIF8-1	
	149	246035	Detector Base/Conv./60/65/Apo 45681-251	
	149	246021	Detector Base/Conv./60/65/Apo GSA-45681-200	
	8	210110	Detector Zone Extension MGE8-1	

7	210122	Fire and Evacuation Panel BC016-2/INT1
6	210102	Fire Detection Control Panel BC016-1/INT1
1	210205	Fire Detection Control Panel BC06-1/INT1
3	210209	Fire Detection Control Panel BC06-2/INT1
71	251001	Remote Indicator PA58-1
4	210210	Zone Extension Board ZEB2-1

242027**Thermal Max Detector/Conv./65/Apo GM-55000-137**

Heat detector operating on the heat detection principle in addressable conventional technology, maximum heat detector classified as CS (maximum room height 6m) in extra flat design, suitable for indoor mounting.

Features

- ◆ Sealed electronics prevents false alarms caused by the environment
- ◆ Individual detector addressing by installing an optional address module NG60-1
- ◆ Output for external remote indicator
- ◆ Mechanical theft protection

Specifications

Operating voltage	supplied through detector line voltage
Current consumption	typ. 45µA (quiescent)
Alarm temperature	typ. 90°C
Operating temperature	max. +80°C (continuous operation)
Ambient temperature	-20°C to +90°C (no condensation or icing)
Relative humidity	0 to 95% (no condensation)
Dimensions Ø × H	100 × 42 (mm)
Colour	white
Weight	80g
Approval	VdS G200062

Cross-references	Page	Art.Nr.	Name	Type
	155	249028	Address Module/Conv./Apo NG60-1	
	35	214020	Conventional Detector Interface GIF8-1	
	149	246035	Detector Base/Conv./60/65/Apo 45681-251	
	149	246021	Detector Base/Conv./60/65/Apo GSA-45681-200	
	8	210110	Detector Zone Extension MGE8-1	
	7	210122	Fire and Evacuation Panel BC016-2/INT1	
	6	210102	Fire Detection Control Panel BC016-1/INT1	
	1	210205	Fire Detection Control Panel BC06-1/INT1	
	3	210209	Fire Detection Control Panel BC06-2/INT1	
	71	251001	Remote Indicator PA58-1	
	4	210210	Zone Extension Board ZEB2-1	

241060**Optical Smoke Detector/Conv./ORBIS/Apo OP-12001**

Smoke detector operating on the light scatter principle in addressable conventional technology, with an optical sensing chamber and of extra flat design, suitable for indoor mounting.



For quick localisation in the event of an alarm, each detector can be assigned an address by adding an address module NG60-1 to the mounting base. In this case, the detector address as well as the assigned text is displayed directly on the fire detection control panel, provided that these functions are supported by the control panel.

Intelligent evaluation algorithms in the detector compensate for the impact of contamination of the optical sensing system. Thereby, the response sensitivity of the detector is kept constant for a long time, thus constituting an effective measure for preventing false alarms. If the contamination of the sensing system is too heavy or if it is defective, the multicolour status

LED on the detector will flash for approx. 4 minutes in yellow colour, after the detector line has been enabled.

Features

- ◆ Sealed electronics prevents false alarms caused by the environment
- ◆ Individual detector addressing by installing an optional address module NG60-1
- ◆ Output for external remote indicator
- ◆ Mechanical theft protection
- ◆ Insect screen

Specifications

Operating voltage	supplied through detector line voltage
Current consumption	typ. 65µA (quiescent)
Ambient temperature	-40°C to +70°C (no condensation or icing)
Relative humidity	0 to 98% (no condensation)
Dimensions Ø × H	100 × 50 (mm)
Colour	white
Weight	100g
Approval	VdS G204039

Cross-references	Page	Art.Nr.	Name	Type
	155	249028	Address Module/Conv./Apo NG60-1	
	35	214020	Conventional Detector Interface GIF8-1	
	150	246042	Detector Base/Conv./ORBIS/Apo MB-00001	
	150	246041	Detector Relay Base/Conv./ORBIS/Apo RB-10004	
	8	210110	Detector Zone Extension MGE8-1	
	7	210122	Fire and Evacuation Panel BC016-2/INT1	
	6	210102	Fire Detection Control Panel BC016-1/INT1	
	1	210205	Fire Detection Control Panel BC06-1/INT1	
	3	210209	Fire Detection Control Panel BC06-2/INT1	
	71	251001	Remote Indicator PA58-1	
	4	210210	Zone Extension Board ZEB2-1	

241061

Optical-Thermal Detector/Conv./ORBIS/Apo OH-13001

Multisensor detector with a detection element operating on the light scatter principle and a detection element operating on the heat principle in addressable conventional technology and of flat design, suitable for indoor mounting.



For quick localisation in the event of an alarm, each detector can be assigned an address by adding an address module NG60-1 to the mounting base. In this case, the detector address as well as the assigned text is displayed directly on the fire detection control panel, provided that these functions are supported by the control panel.

Intelligent evaluation algorithms in the detector compensate for the impact of contamination of the optical sensing system. Thereby, the response sensitivity of the detector is kept constant for a long time, thus constituting an effective measure for preventing false alarms. If the contamination of the optical sensing system is too heavy or if it is defective, the multicolour status LED on the detector will flash for approx. 4 minutes in yellow colour, after the detector line has been enabled.

Features

- ◆ Sealed electronics prevents false alarms caused by the environment
- ◆ Individual detector addressing by installing an optional address module NG60-1
- ◆ Output for external remote indicator
- ◆ Mechanical theft protection
- ◆ Insect screen

Specifications

Operating voltage	supplied through detector line voltage
Current consumption	typ. 65µA (quiescent)
Ambient temperature	-40°C to +70°C (no condensation or icing)
Relative humidity	0 to 98% (no condensation)
Dimensions Ø × H	100 × 60 (mm)

Colour	white
Weight	140g
Approval	VdS G204040

Cross-references	Page	Art.Nr.	Name	Type
	155	249028	Address Module/Conv./Apo NG60-1	
	35	214020	Conventional Detector Interface GIF8-1	
	150	246042	Detector Base/Conv./ORBIS/Apo MB-00001	
	150	246041	Detector Relay Base/Conv./ORBIS/Apo RB-10004	
	8	210110	Detector Zone Extension MGE8-1	
	7	210122	Fire and Evacuation Panel BC016-2/INT1	
	6	210102	Fire Detection Control Panel BC016-1/INT1	
	1	210205	Fire Detection Control Panel BC06-1/INT1	
	3	210209	Fire Detection Control Panel BC06-2/INT1	
	71	251001	Remote Indicator PA58-1	
	4	210210	Zone Extension Board ZEB2-1	

242030**Thermal ROR Detector/Conv./ORBIS/Apo HT-11001**

Heat detector operating on the rate-of-rise heat detection principle in addressable conventional technology, combined maximum/rate-of-rise detector classified as A1R (maximum room height 7.5 m), in extra-flat design, suitable for indoor mounting.



For quick localisation in the event of an alarm, each detector can be assigned an address by adding an address module NG60-1 to the mounting base. In this case, the detector address as well as the assigned text is displayed directly on the fire detection control panel, provided that these functions are supported by the control panel.

If the detector is faulty, the multicolour status LED on the detector will flash for approx. 4 minutes in yellow colour, after the detector line has been enabled.

Features

- ◆ Sealed electronics prevents false alarms caused by the environment
- ◆ Individual detector addressing by installing an optional address module NG60-1
- ◆ Output for external remote indicator
- ◆ Mechanical theft protection

Specifications

Operating voltage	supplied through detector line voltage
Current consumption	typ. 65µA (quiescent)
Alarm temperature	57°C (maximum-heat component)
Operating temperature	max. +50°C
Ambient temperature	-40°C to +70°C (no condensation or icing)
Relative humidity	0 to 98% (no condensation)
Dimensions Ø × H	100 × 50 (mm)
Colour	white
Weight	130g
Approval	VdS G204033

Cross-references	Page	Art.Nr.	Name	Type
	155	249028	Address Module/Conv./Apo NG60-1	
	35	214020	Conventional Detector Interface GIF8-1	
	150	246042	Detector Base/Conv./ORBIS/Apo MB-00001	
	150	246041	Detector Relay Base/Conv./ORBIS/Apo RB-10004	
	8	210110	Detector Zone Extension MGE8-1	
	7	210122	Fire and Evacuation Panel BC016-2/INT1	
	6	210102	Fire Detection Control Panel BC016-1/INT1	
	1	210205	Fire Detection Control Panel BC06-1/INT1	
	3	210209	Fire Detection Control Panel BC06-2/INT1	
	71	251001	Remote Indicator PA58-1	
	4	210210	Zone Extension Board ZEB2-1	

242031 Thermal Max Detector/Conv./ORBIS/Apo HT-11002

Heat detector operating on the heat detection principle in addressable conventional technology, maximum heat detector classified as A2S (maximum room height 6m), in extra flat design, suitable for indoor mounting.



For quick localisation in the event of an alarm, each detector can be assigned an address by adding an address module NG60-1 to the mounting base. In this case, the detector address as well as the assigned text is displayed directly on the fire detection control panel, provided that these functions are supported by the control panel.

If the detector is faulty, the multicolour status LED on the detector will flash for approx. 4 minutes in yellow colour, after the detector line has been enabled.

Features

- ◆ Sealed electronics prevents false alarms caused by the environment
- ◆ Individual detector addressing by installing an optional address module NG60-1
- ◆ Output for external remote indicator
- ◆ Mechanical theft protection

Specifications

Operating voltage	supplied through detector line voltage
Current consumption	typ. 65µA (quiescent)
Alarm temperature	typ. 61°C
Operating temperature	max. +50°C
Ambient temperature	-40°C to +70°C (no condensation or icing)
Relative humidity	0 to 98% (no condensation)
Dimensions Ø × H	100 × 50 (mm)
Colour	white
Weight	130g
Approval	VdS G204034

Cross-references	Page	Art.Nr.	Name	Type
	155	249028	Address Module/Conv./Apo NG60-1	
	35	214020	Conventional Detector Interface GIF8-1	
	150	246042	Detector Base/Conv./ORBIS/Apo MB-00001	
	150	246041	Detector Relay Base/Conv./ORBIS/Apo RB-10004	
	8	210110	Detector Zone Extension MGE8-1	
	7	210122	Fire and Evacuation Panel BC016-2/INT1	
	6	210102	Fire Detection Control Panel BC016-1/INT1	
	1	210205	Fire Detection Control Panel BC06-1/INT1	
	3	210209	Fire Detection Control Panel BC06-2/INT1	
	71	251001	Remote Indicator PA58-1	
	4	210210	Zone Extension Board ZEB2-1	

242032 Thermal ROR Detector/Conv./ORBIS/Apo HT-11003

Heat detector operating on the rate-of-rise heat detection principle in addressable conventional technology, combined maximum/rate-of-rise detector classified as BR (maximum room height 6m), in extra-flat design, suitable for indoor mounting.



For quick localisation in the event of an alarm, each detector can be assigned an address by adding an address module NG60-1 to the mounting base. In this case, the detector address as well as the assigned text is displayed directly on the fire detection control panel, provided that these functions are supported by the control panel.

If the detector is faulty, the multicolour status LED on the detector will flash for approx. 4 minutes in yellow colour, after the detector line has been enabled.

Features

- ◆ Sealed electronics prevents false alarms caused by the environment
- ◆ Individual detector addressing by installing an optional address module NG60-1

- ◆ Output for external remote indicator
- ◆ Mechanical theft protection

Specifications

Operating voltage	supplied through detector line voltage
Current consumption	typ. 65µA (quiescent)
Alarm temperature	75°C (maximum-heat component)
Operating temperature	max. +65°C
Ambient temperature	-40°C to +80°C (no condensation or icing)
Relative humidity	0 to 98% (no condensation)
Dimensions Ø × H	100 × 50 (mm)
Colour	white
Weight	130g
Approval	VdS G204035

Cross-references	Page	Art.Nr.	Name	Type
	155	249028	Address Module/Conv./Apo NG60-1	
	35	214020	Conventional Detector Interface GIF8-1	
	150	246042	Detector Base/Conv./ORBIS/Apo MB-00001	
	150	246041	Detector Relay Base/Conv./ORBIS/Apo RB-10004	
	8	210110	Detector Zone Extension MGE8-1	
	7	210122	Fire and Evacuation Panel BC016-2/INT1	
	6	210102	Fire Detection Control Panel BC016-1/INT1	
	1	210205	Fire Detection Control Panel BC06-1/INT1	
	3	210209	Fire Detection Control Panel BC06-2/INT1	
	71	251001	Remote Indicator PA58-1	
	4	210210	Zone Extension Board ZEB2-1	

242033

Thermal Max Detector/Conv./ORBIS/Apo HT-11004

Heat detector operating on the heat detection principle in addressable conventional technology, maximum heat detector classified as BS (maximum room height 6m), in extra flat design, suitable for indoor mounting.



For quick localisation in the event of an alarm, each detector can be assigned an address by adding an address module NG60-1 to the mounting base. In this case, the detector address as well as the assigned text is displayed directly on the fire detection control panel, provided that these functions are supported by the control panel.

If the detector is faulty, the multicolour status LED on the detector will flash for approx. 4 minutes in yellow colour, after the detector line has been enabled.

Features

- ◆ Sealed electronics prevents false alarms caused by the environment
- ◆ Individual detector addressing by installing an optional address module NG60-1
- ◆ Output for external remote indicator
- ◆ Mechanical theft protection

Specifications

Operating voltage	supplied through detector line voltage
Current consumption	typ. 65µA (quiescent)
Alarm temperature	typ. 75°C
Operating temperature	max. +65°C (continuous operation)
Ambient temperature	-40°C to +80°C (no condensation or icing)
Relative humidity	0 to 98% (no condensation)
Dimensions Ø × H	100 × 50 (mm)
Colour	white
Weight	130g
Approval	VdS G204036

Cross-references	Page	Art.Nr.	Name	Type
	155	249028	Address Module/Conv./Apo NG60-1	
	35	214020	Conventional Detector Interface GIF8-1	
	150	246042	Detector Base/Conv./ORBIS/Apo MB-00001	

150	246041	Detector Relay Base/Conv./ORBIS/Apo RB-10004
8	210110	Detector Zone Extension MGE8-1
7	210122	Fire and Evacuation Panel BC016-2/INT1
6	210102	Fire Detection Control Panel BC016-1/INT1
1	210205	Fire Detection Control Panel BC06-1/INT1
3	210209	Fire Detection Control Panel BC06-2/INT1
71	251001	Remote Indicator PA58-1
4	210210	Zone Extension Board ZEB2-1

242034 Thermal ROR Detector/Conv./ORBIS/Apo HT-11005

Heat detector operating on the rate-of-rise heat detection principle in addressable conventional technology, combined maximum/rate-of-rise detector classified as CR (maximum room height 6m), in extra-flat design, suitable for indoor mounting.



For quick localisation in the event of an alarm, each detector can be assigned an address by adding an address module NG60-1 to the mounting base. In this case, the detector address as well as the assigned text is displayed directly on the fire detection control panel, provided that these functions are supported by the control panel.

If the detector is faulty, the multicolour status LED on the detector will flash for approx. 4 minutes in yellow colour, after the detector line has been enabled.

Features

- ◆ Sealed electronics prevents false alarms caused by the environment
- ◆ Individual detector addressing by installing an optional address module NG60-1
- ◆ Output for external remote indicator
- ◆ Mechanical theft protection

Specifications

Operating voltage	supplied through detector line voltage
Current consumption	typ. 65µA (quiescent)
Alarm temperature	90°C (maximum-heat component)
Operating temperature	max. +80°C
Ambient temperature	-40°C to +90°C (no condensation or icing)
Relative humidity	0 to 98% (no condensation)
Dimensions Ø × H	100 × 50 (mm)
Colour	white
Weight	130g
Approval	VdS G204037

Cross-references	Page	Art.Nr.	Name	Type
	155	249028	Address Module/Conv./Apo NG60-1	
	35	214020	Conventional Detector Interface GIF8-1	
	150	246042	Detector Base/Conv./ORBIS/Apo MB-00001	
	150	246041	Detector Relay Base/Conv./ORBIS/Apo RB-10004	
	8	210110	Detector Zone Extension MGE8-1	
	7	210122	Fire and Evacuation Panel BC016-2/INT1	
	6	210102	Fire Detection Control Panel BC016-1/INT1	
	1	210205	Fire Detection Control Panel BC06-1/INT1	
	3	210209	Fire Detection Control Panel BC06-2/INT1	
	71	251001	Remote Indicator PA58-1	
	4	210210	Zone Extension Board ZEB2-1	

242035 Thermal Max Detector/Conv./ORBIS/Apo HT-11006

Heat detector operating on the heat detection principle in addressable conventional technology, maximum heat detector classified as CS (maximum room height 6m), in extra flat design, suitable for indoor mounting.



For quick localisation in the event of an alarm, each detector can be assigned an address by adding an address module NG60-1 to the mounting base. In this case, the detector address as well as the assigned text is displayed directly on the fire detection control panel, provided that these functions are supported by the control panel.

If the detector is faulty, the multicolour status LED on the detector will flash for approx. 4 minutes in yellow colour, after the detector line has been enabled.

Features

- ◆ Sealed electronics prevents false alarms caused by the environment
- ◆ Individual detector addressing by installing an optional address module NG60-1
- ◆ Output for external remote indicator
- ◆ Mechanical theft protection

Specifications

Operating voltage	supplied through detector line voltage
Current consumption	typ. 65µA (quiescent)
Alarm temperature	typ. 90°C
Operating temperature	max. +80°C (continuous operation)
Ambient temperature	-40°C to +90°C (no condensation or icing)
Relative humidity	0 to 98% (no condensation)
Dimensions Ø × H	100 × 50 (mm)
Colour	white
Weight	130g
Approval	VdS G204038

Cross-references	Page	Art.Nr.	Name	Type
	155	249028	Address Module/Conv./Apo NG60-1	
	35	214020	Conventional Detector Interface GIF8-1	
	150	246042	Detector Base/Conv./ORBIS/Apo MB-00001	
	150	246041	Detector Relay Base/Conv./ORBIS/Apo RB-10004	
	8	210110	Detector Zone Extension MGE8-1	
	7	210122	Fire and Evacuation Panel BC016-2/INT1	
	6	210102	Fire Detection Control Panel BC016-1/INT1	
	1	210205	Fire Detection Control Panel BC06-1/INT1	
	3	210209	Fire Detection Control Panel BC06-2/INT1	
	71	251001	Remote Indicator PA58-1	
	4	210210	Zone Extension Board ZEB2-1	

15 Analogue Detectors and Modules Series XP95/DISCOVERY

240024 Ionisation Smoke Detector/Anal./XP95/Apo AI-55000-520

Addressable smoke detector operating on the ionisation principle for application on the ADM loop using Apollo/Discovery protocol, consisting of a sensing and reference chamber (dual chamber principle) for automatic compensation of environmental influences and a extra flat design, suitable for indoor mounting.



Intelligent evaluation algorithms in the respective LST fire detection control panels compensate for the impact of contamination of the sensing system. Thereby, the response sensitivity of the detector is kept constant for a long time, thus constituting an effective measure for preventing false alarms.

Features

- ◆ Permanent evaluation of environmental conditions
- ◆ Constant sensitivity
- ◆ Address card in the detector base for setting the physical address from 01 to 126
- ◆ Sealed electronics prevents false alarms caused by the environment
- ◆ Output for external remote indicator
- ◆ Mechanical theft protection
- ◆ Insect screen

Specifications

Operating voltage	supplied through loop voltage
Current consumption	typ. 280µA (quiescent)
Ambient temperature	-20°C to +60°C (no condensation or icing)
Relative humidity	0 to 95% (no condensation)
Radioactive compound	Am241, 0.9µCi (33.3kBq)
Dimensions Ø × H	100 × 42 (mm)
Colour	white
Weight	105g
Approval	VdS G294037

Cross-references	Page	Art.Nr.	Name	Type
	26	214034	BCnet Sectional Control Panel/Extension BCE216-3LG	
	153	246034	Detector Base/Anal./Apo 45681-250	
	151	246025	Detector Base/Anal./Apo ASA-45681-210	
	152	246037	Detector Relay Base/Anal./XP95/DISC/Apo ASR-45681-242	
	32	214234	Fire Detection Control Panel Module/LG BCM216-3ELG	
	151	246036	Isolator Detector Base/Anal./Apo AISA-45681-321	
	35	214021	Loop Interface LIF64-1	
	71	251001	Remote Indicator PA58-1	

241023 Optical Smoke Detector/Anal./XP95/Apo AO-55000-620

Addressable smoke detector operating on the light scatter principle for application on the ADM loop using Apollo/Discovery protocol, with an optical sensing chamber and of extra flat design, suitable for indoor mounting.



Intelligent evaluation algorithms in the respective LST fire detection control panels compensate for the impact of contamination of the optical sensing system. Thereby, the response sensitivity of the detector is kept constant for a long time, thus constituting another effective measure for preventing false alarms.

Features

- ◆ Permanent evaluation of environmental conditions
- ◆ Constant sensitivity
- ◆ Address card in the detector base for setting the physical address from 01 to 126
- ◆ Sealed electronics prevents false alarms caused by the environment
- ◆ Output for external remote indicator
- ◆ Mechanical theft protection
- ◆ Insect screen

Specifications

Operating voltage	supplied through loop voltage
Current consumption	typ. 340 μ A (quiescent)
Ambient temperature	-20°C to +60°C (no condensation or icing)
Relative humidity	0 to 95% (no condensation)
Dimensions $\varnothing \times H$	100 \times 42 (mm)
Colour	white
Weight	105g
Approval	VdS G294028

Cross-references	Page	Art.Nr.	Name	Type
	26	214034	BCnet Sectional Control Panel/Extension BCE216-3LG	
	153	246034	Detector Base/Anal./Apo 45681-250	
	151	246025	Detector Base/Anal./Apo ASA-45681-210	
	152	246037	Detector Relay Base/Anal./XP95/DISC/Apo ASR-45681-242	
	32	214234	Fire Detection Control Panel Module/LG BCM216-3ELG	
	151	246036	Isolator Detector Base/Anal./Apo AISA-45681-321	
	35	214021	Loop Interface LIF64-1	
	71	251001	Remote Indicator PA58-1	

242023**Thermal Detector/Anal./XP95/Apo AW-55000-420**

Addressable thermal detector operating on the heat principle for application on the ADM loop using Apollo/Discovery protocol and of extra flat design, suitable for indoor mounting. The detector is assigned to class A2S and A2R (maximum room height 6m). The principle that is applied for the evaluation of the measured values (maximum or rate-of-rise heat detection) can be selected in the fire detection control panel by means of appropriate programming.

Features

- ◆ Permanent evaluation of environmental conditions
- ◆ Continuous transmission of the current measured value to the fire detection control panel
- ◆ Constant sensitivity
- ◆ Address card in the detector base for setting the physical address from 01 to 126
- ◆ Sealed electronics prevents false alarms caused by the environment
- ◆ Output for external remote indicator
- ◆ Mechanical theft protection

Specifications

Operating voltage	supplied through loop voltage
Current consumption	typ. 250 μ A (quiescent)
Ambient temperature	-20°C to +70°C (no condensation or icing)
Relative humidity	0 to 95% (no condensation)
Dimensions $\varnothing \times H$	100 \times 42 (mm)
Colour	white
Weight	105g
Approval	VdS G294029

Cross-references	Page	Art.Nr.	Name	Type
	26	214034	BCnet Sectional Control Panel/Extension BCE216-3LG	
	153	246034	Detector Base/Anal./Apo 45681-250	
	151	246025	Detector Base/Anal./Apo ASA-45681-210	
	152	246037	Detector Relay Base/Anal./XP95/DISC/Apo ASR-45681-242	
	32	214234	Fire Detection Control Panel Module/LG BCM216-3ELG	
	151	246036	Isolator Detector Base/Anal./Apo AISA-45681-321	

35	214021	Loop Interface LIF64-1
71	251001	Remote Indicator PA58-1

241030 Optical-Thermal Detector/Anal./XP95/Apo AMS-55000-885

The addressable Multisensor Detector AMS-55000-885 comprises one detection unit operating on the principle of scattered light and one detection unit operating on the rate-of-rise heat principle. The alarm evaluation is based on the analysis of measured values from both detection



units; false alarms are mostly avoided if only one of the characteristics of fire, like smoke or heat, appears. Communication with the fire detection control panel is established via the ADM loop using Apollo/Discovery protocol.

Intelligent evaluation algorithms compensate for the impact of contamination of the optical sensing system. Thereby, the response sensitivity of the detector is kept constant for a long time -

another effective measure for avoiding false alarms.

The detector is accommodated in a flat white plastic housing and is designed for indoor mounting.

Features

- ◆ Permanent evaluation of environmental conditions
- ◆ Constant sensitivity
- ◆ Code card in detector base for setting of physical address from 01 to 126
- ◆ Sealed electronics prevents false alarms caused by environmental influences
- ◆ Output for external remote indicator
- ◆ Mechanical theft protection
- ◆ Insect screen

Specifications

Operating voltage	supplied through loop voltage
Current consumption	typ. 500µA (quiescent)
Ambient temperature	-20°C to +60°C (no condensation or icing)
Relative humidity	0 - 95% (no condensation)
Dimensions Ø × H	100 × 50 (mm)
Colour	white
Weight	105g
Approval	VdS G299080

Cross-references	Page	Art.Nr.	Name	Type
	26	214034	BCnet Sectional Control Panel/Extension BCE216-3LG	
	153	246034	Detector Base/Anal./Apo 45681-250	
	151	246025	Detector Base/Anal./Apo ASA-45681-210	
	152	246037	Detector Relay Base/Anal./XP95/DISC/Apo ASR-45681-242	
	32	214234	Fire Detection Control Panel Module/LG BCM216-3ELG	
	151	246036	Isolator Detector Base/Anal./Apo AISA-45681-321	
	35	214021	Loop Interface LIF64-1	
	71	251001	Remote Indicator PA58-1	

240026 Ionisation Smoke Detector/Anal./Disc/Apo AI-58000-500

Addressable smoke detector operating on the ionisation principle for application on the ADM loop using Apollo/Discovery protocol, consisting of a sensing and reference chamber (dual chamber principle) for automatic compensation of environmental influences and of extra flat design, suitable for indoor mounting.



Intelligent evaluation algorithms in the respective LST fire detection control panels compensate for the impact of contamination of the sensing system. Thereby, the response sensitivity of the detector is kept constant for a long time, thus constituting an effective measure for preventing false alarms.

What is more, the response sensitivity of the detector can be adjusted via the fire detection control panel, to adapt the detector optimally to the application environment.

Features

- ◆ Permanent evaluation of environmental conditions
- ◆ Constant sensitivity
- ◆ Response sensitivity can be set in 5 steps via the Fire Detection Control Panel Series BC216
- ◆ Address card in the detector base for setting the physical address from 01 to 126
- ◆ Sealed electronics prevents false alarms caused by the environment
- ◆ Display of activated condition via 2 LED indicators that are visible from all angles
- ◆ Output for external remote indicator
- ◆ Mechanical theft protection
- ◆ Insect screen

Specifications

Operating voltage	supplied through loop voltage
Current consumption	typ. 500µA (quiescent)
Ambient temperature	-20°C to +60°C (no condensation or icing)
Relative humidity	0 to 95% (no condensation)
Radioactive compound	Am241, 0.9µCi (33.3kBq)
Dimensions Ø × H	100 × 42 (mm)
Colour	white
Weight	105g
Approval	VdS G200073

Cross-references	Page	Art.Nr.	Name	Type
	26	214034	BCnet Sectional Control Panel/Extension BCE216-3LG	
	153	246034	Detector Base/Anal./Apo 45681-250	
	151	246025	Detector Base/Anal./Apo ASA-45681-210	
	152	246037	Detector Relay Base/Anal./XP95/DISC/Apo ASR-45681-242	
	32	214234	Fire Detection Control Panel Module/LG BCM216-3ELG	
	151	246036	Isolator Detector Base/Anal./Apo AISA-45681-321	
	35	214021	Loop Interface LIF64-1	
	71	251001	Remote Indicator PA58-1	

241027

Optical Smoke Detector/Anal./Disc/Apo AO-58000-600

Addressable smoke detector operating on the light scatter principle for application on the ADM loop using Apollo/Discovery protocol, with an optical sensing chamber and of extra flat design, suitable for indoor mounting.



Intelligent evaluation algorithms in the respective LST fire detection control panels compensate for the impact of contamination of the optical sensing system. Thereby, the response sensitivity of the detector is kept constant for a long time, thus constituting another effective measure for preventing false alarms.

What is more, the response sensitivity of the detector can be adjusted via the fire detection control panel, to adapt the detector optimally to the application environment.

Features

- ◆ Permanent evaluation of environmental conditions
- ◆ Constant sensitivity
- ◆ Response sensitivity can be set in 5 steps via the Fire Detection Control Panel Series BC216 (1.4 to 2.8%/m)
- ◆ Address card in the detector base for setting the physical address from 01 to 126
- ◆ Sealed electronics prevents false alarms caused by the environment
- ◆ Display of activated condition via 2 LED indicators that are visible from all angles
- ◆ Output for external remote indicator
- ◆ Mechanical theft protection
- ◆ Insect screen

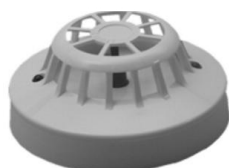
Specifications

Operating voltage	supplied through loop voltage
Current consumption	typ. 400µA (quiescent)
Ambient temperature	-20°C to +60°C (no condensation or icing)
Relative humidity	0 to 95% (no condensation)
Dimensions Ø × H	100 × 42 (mm)
Colour	white
Weight	105g
Approval	VdS G299037

Cross-references	Page	Art.Nr.	Name	Type
	26	214034	BCnet Sectional Control Panel/Extension BCE216-3LG	
	153	246034	Detector Base/Anal./Apo 45681-250	
	151	246025	Detector Base/Anal./Apo ASA-45681-210	
	152	246037	Detector Relay Base/Anal./XP95/DISC/Apo ASR-45681-242	
	32	214234	Fire Detection Control Panel Module/LG BCM216-3ELG	
	151	246036	Isolator Detector Base/Anal./Apo AISA-45681-321	
	35	214021	Loop Interface LIF64-1	
	71	251001	Remote Indicator PA58-1	

242028**Thermal Detector/Anal./Disc/Apo AD-58000-400**

Addressable thermal detector operating on the heat principle for application on the ADM loop using Apollo/Discovery protocol, in extra flat design, suitable for indoor mounting. The detector can be classified A1R, A2, A2S, CR and CS (maximum room height with A1R is 7.5m, else 6m).

Features

- ◆ Permanent evaluation of environmental conditions
- ◆ Continuous transmission of the current measured value to the fire detection control panel
- ◆ Classification can be set in 5 steps (A1R, A2, A2S, CR and CS) via Fire Detection Control Panel Series BC216
- ◆ Address card in the detector base for setting the physical address from 01 to 126
- ◆ Sealed electronics prevents false alarms caused by the environment
- ◆ Display of activated condition via 2 LED indicators that are visible from all angles
- ◆ Output for external remote indicator
- ◆ Mechanical theft protection

Specifications

Operating voltage	supplied through loop voltage
Current consumption	typ. 500µA (quiescent)
Alarm temperature	typ. 58°C with A1R typ. 61°C with A2 and A2S typ. 90°C with CR and CS
Operating temperature	max. +50°C with A1R, A2 and A2S max. +80°C with CR and CS
Ambient temperature	-20°C to +80°C (no condensation or icing)
Relative humidity	0 to 95% (no condensation)
Dimensions Ø × H	100 × 42 (mm)
Colour	white
Weight	105g
Approval	VdS G299039

Cross-references	Page	Art.Nr.	Name	Type
	26	214034	BCnet Sectional Control Panel/Extension BCE216-3LG	
	153	246034	Detector Base/Anal./Apo 45681-250	
	151	246025	Detector Base/Anal./Apo ASA-45681-210	
	152	246037	Detector Relay Base/Anal./XP95/DISC/Apo ASR-45681-242	
	32	214234	Fire Detection Control Panel Module/LG BCM216-3ELG	
	151	246036	Isolator Detector Base/Anal./Apo AISA-45681-321	
	35	214021	Loop Interface LIF64-1	
	71	251001	Remote Indicator PA58-1	

241022

Optical-Thermal Detector/Anal./Disc/Apo AMS-58000-700

Addressable multisensor detector with a detection element operating on the light scatter principle and a detection element operating on the rate-of-rise heat principle for application on the ADM loop using Apollo/Discovery protocol and is of extra flat design, suitable for indoor mounting. The alarm evaluation is based on the analysis of both detection units; if only one characteristic of fire occurs false alarms can be mostly avoided. Please note that the detector must not be used if the room height exceeds 7.5m in the thermal only mode.



Intelligent evaluation algorithms compensate for the impact of contamination of the optical sensing system. Thereby, the response sensitivity of the detector is kept constant for a long time, thus constituting another effective measure for preventing false alarms.

What is more, the response sensitivity of the detector can be adjusted via the fire detection control panel, to adapt the detector optimally to the application environment.

Features

- ◆ Permanent evaluation of environmental conditions
- ◆ Constant sensitivity
- ◆ Response sensitivity and operation mode can be set in 5 steps via the Fire Detection Control Panel Series BC216 (smoke only, heat only, 3 levels multisensor)
- ◆ Address card in the detector base for setting the physical address from 01 to 126
- ◆ Sealed electronics prevents false alarms caused by the environment
- ◆ Display of activated condition via 2 LED indicators that are visible from all angles
- ◆ Output for external remote indicator
- ◆ Mechanical theft protection
- ◆ Insect screen

Specifications

Operating voltage	supplied through loop voltage
Current consumption	typ. 500µA (quiescent)
Ambient temperature	-20°C to +60°C (no condensation or icing)
Relative humidity	0 to 95% (no condensation)
Dimensions Ø × H	100 × 50 (mm)
Colour	white
Weight	105g
Approval	VdS G299038

Cross-references	Page	Art.Nr.	Name	Type
	26	214034	BCnet Sectional Control Panel/Extension BCE216-3LG	
	153	246034	Detector Base/Anal./Apo 45681-250	
	151	246025	Detector Base/Anal./Apo ASA-45681-210	
	152	246037	Detector Relay Base/Anal./XP95/DISC/Apo ASR-45681-242	
	32	214234	Fire Detection Control Panel Module/LG BCM216-3ELG	
	151	246036	Isolator Detector Base/Anal./Apo AISA-45681-321	
	35	214021	Loop Interface LIF64-1	
	71	251001	Remote Indicator PA58-1	

243100

CO-Detector/Anal./Disc/Apo AC-58000-300

Addressable CO detector operating on the electro-chemical principle for application on the ADM loop using Apollo/Discovery protocol, in extra flat design, suitable for indoor mounting.

Features

- ◆ Permanent evaluation of environmental conditions
- ◆ Continuous transmission of the current measured value to the fire detection control panel
- ◆ Sensitivity can be set in 5 steps via the Fire Detection Control Panel Series BC216
- ◆ Address card in the detector base for setting the physical address from 01 to 126
- ◆ Sealed electronics prevents false alarms caused by the environment

- ◆ Display of activated condition via 2 LED indicators that are visible from all angles
- ◆ Output for external remote indicator
- ◆ Mechanical theft protection

Specifications

Operating voltage	supplied through loop voltage
Current consumption	typ. 400µA (quiescent)
Ambient temperature	0°C to +40°C (no condensation)
Relative humidity	15 to 90% (no condensation)
Dimensions Ø × H	100 × 42 (mm)
Colour	white
Weight	105g

Cross-references	Page	Art.Nr.	Name	Type
	26	214034	BCnet Sectional Control Panel/Extension BCE216-3LG	
	153	246034	Detector Base/Anal./Apo 45681-250	
	151	246025	Detector Base/Anal./Apo ASA-45681-210	
	152	246037	Detector Relay Base/Anal./XP95/DISC/Apo ASR-45681-242	
	32	214234	Fire Detection Control Panel Module/LG BCM216-3ELG	
	151	246036	Isolator Detector Base/Anal./Apo AISA-45681-321	
	35	214021	Loop Interface LIF64-1	
	71	251001	Remote Indicator PA58-1	

249061 Monitor Module/Anal./XP95/Apo ÜMM-55000-833

Addressable compact mini module for the line-monitored integration of contact detectors (e.g., sprinkler system contacts, supervising contact) into the bi-directional communication on the ADM loop using Apollo/Discovery protocol.



Features

- ◆ Output for an optional LED indicator
- ◆ Switch for setting the physical address from 01 to 126

Specifications

Operating voltage	supplied through loop voltage
Current consumption	1mA (quiescent)
Ambient temperature	-20°C to +70°C
Dimensions L × W × H	76 × 47 × 14 (mm)
Connection technology	six flexible wires of 150mm length
Colour	white
Weight	46g

Cross-references	Page	Art.Nr.	Name	Type
	26	214034	BCnet Sectional Control Panel/Extension BCE216-3LG	
	32	214234	Fire Detection Control Panel Module/LG BCM216-3ELG	
	147	249029	Isolator Module/Anal./Apo ISM1-3	
	35	214021	Loop Interface LIF64-1	

249060 Monitor Module-Interrupt/Anal./XP95/Apo ÜMI-55000-832

Addressable compact mini module used for the line-monitored integration with prioritised alarm transmission of contact detectors (e.g., manual call points) into the bi-directional communication on the ADM loop using Apollo/Discovery protocol.



Features

- ◆ Prioritised quick alarm transmission to the fire detection control panel
- ◆ Output for an optional LED indicator
- ◆ Switch for setting the physical address from 01 to 126

Specifications

Operating voltage	supplied through loop voltage
Current consumption	1mA (quiescent)
Ambient temperature	-20°C to +70°C
Dimensions L × W × H	76 × 47 × 14 (mm)
Connection technology	six flexible wires of 150mm length
Colour	white
Weight	46g

Cross-references	Page	Art.Nr.	Name	Type
	26	214034	BCnet Sectional Control Panel/Extension BCE216-3LG	
	32	214234	Fire Detection Control Panel Module/LG BCM216-3ELG	
	147	249029	Isolator Module/Anal./Apo ISM1-3	
	35	214021	Loop Interface LIF64-1	

249072 Monitor Module/Anal./XP95/Apo ÜMS-55000-841

Addressable compact module with integrated dual-isolator used for the line-monitored integration of special detectors (e.g., beam smoke detectors) into the bi-directional communication on the ADM loop using Apollo/Discovery protocol. The module provides a reset output for resetting the connected detectors.

Features

- ◆ Switch for setting the physical address from 01 to 126

Specifications

Operating voltage	supplied through loop voltage
Current consumption	1.2mA (quiescent)
Line termination	20kOhm
Alarm threshold	typ. 1kOhm
Ambient temperature	-20°C to +70°C
Dimensions L × W × H	150 × 90 × 48 (mm)
Colour	white
Weight	240g
Approval	VdS G201033

Cross-references	Page	Art.Nr.	Name	Type
	26	214034	BCnet Sectional Control Panel/Extension BCE216-3LG	
	32	214234	Fire Detection Control Panel Module/LG BCM216-3ELG	
	35	214021	Loop Interface LIF64-1	

249076 Module 1xSurv.In 1xRel.Out/Apo 55000-847

Addressable module for the line-monitored integration of contact detectors (e.g., manual call points, sprinkler system contacts, supervising contacts) as well as for triggering external devices via the bi-directional communication on the ADM loop using Apollo/Discovery protocol.



The module provides a monitored input and a relay output with two dry contacts. Furthermore, an external voltage can be monitored via an opto-coupled input. The unit includes an integrated dual-isolator; it is integrated into a plastic housing.

Features

- ◆ Separate status LED for each input and output
- ◆ Surveillance of terminal connecting lines for wire breakage and short circuit
- ◆ DIL switch for setting the physical address between 01 and 126

Specifications

Operating voltage	supplied through loop voltage
Current consumption	approx. 1.5mA (quiescent)
Contact rating	1A/30VDC or AC
Line termination	20kOhm
Alarm threshold	typ. 4.7kOhm
Ambient temperature	-20°C to +70°C
Dimensions L × W × H	150 × 90 × 48 (mm)
Colour	white
Weight	240g
Approval	VdS G201032

Cross-references	Page	Art.Nr.	Name	Type
	26	214034	BCnet Sectional Control Panel/Extension BCE216-3LG	
	32	214234	Fire Detection Control Panel Module/LG BCM216-3ELG	
	35	214021	Loop Interface LIF64-1	

249077 Module 3xSurv.In 3xRel.Out/Apo 55000-588

Addressable module for the line-monitored integration of 3 contact detectors (e.g., manual call points, sprinkler system contacts, supervising contacts) as well as 3 dry relay contacts for triggering external devices via the bi-directional communication on the ADM loop using

Apollo/Discovery protocol. The module provides an integrated dual-isolator and is integrated into a plastic housing.



Features

- ◆ Separate status LED for each input and output
- ◆ Surveillance of terminal connecting lines for wire breakage and short circuit
- ◆ DIL switch for setting the physical address between 01 and 126

Specifications

Operating voltage	supplied through loop voltage
Current consumption	approx. 3mA (quiescent)
Contact rating	1A/30VDC or AC
Line termination	20kOhm
Alarm threshold	typ. 4.7kOhm
Ambient temperature	-20°C to +70°C
Dimensions L × W × H	250 × 175 × 75 (mm)
Colour	white
Weight	621g
Approval	VdS G202052

Cross-references	Page	Art.Nr.	Name	Type
	26	214034	BCnet Sectional Control Panel/Extension BCE216-3LG	
	32	214234	Fire Detection Control Panel Module/LG BCM216-3ELG	
	35	214021	Loop Interface LIF64-1	

249078 Module 1xSurv.In 1xRel.Out-230/Apo 55000-875

Addressable module for the line-monitored integration of a contact detector (e.g., manual call point, sprinkler system contact, supervising contact) as well as a dry relay contact for triggering external devices via the bi-directional communication on the ADM loop using Apollo/Discovery protocol. The module provides an integrated dual-isolator and is integrated into a plastic housing.



Features

- ◆ Separate status LED for input and output
- ◆ Surveillance of terminal connecting lines for wire breakage and short circuit
- ◆ DIL switch for setting the physical address between 01 and 126

Specifications

Operating voltage	supplied through loop voltage
Current consumption	approx. 1.25mA (quiescent)
Contact rating	2A/48VDC or 5A/230VAC
Line termination	20kOhm
Alarm threshold	typ. 1kOhm
Ambient temperature	-20°C to +70°C
Dimensions L × W × H	150 × 90 × 48 (mm)
Colour	white
Weight	240g

Cross-references	Page	Art.Nr.	Name	Type
	26	214034	BCnet Sectional Control Panel/Extension BCE216-3LG	
	32	214234	Fire Detection Control Panel Module/LG BCM216-3ELG	
	35	214021	Loop Interface LIF64-1	

249073 Control Module/Anal./XP95/Apo SMÜ-55000-852

Addressable compact module with integrated dual-isolator used for the line-monitored activation of external devices (e.g., fire controls, acoustic and optical signalling devices) via the bi-directional communication on the ADM loop using Apollo/Discovery protocol. A monitored output can be used as actuation output. An external supply voltage has to be applied for the power supply of the external devices.



Features

- ◆ Monitoring of the external supply voltage
- ◆ Switch for setting the physical address from 01 to 126

Specifications

Operating voltage	supplied through loop voltage
Current consumption	1.9mA (quiescent)
External consumer voltage	max. 32VDC
Output current	max. 1A (resistive or inductive load)
Monitoring voltage	-10VDC
End-of-line resistor	10kOhm
Ambient temperature	-20°C to +70°C
Dimensions L × W × H	150 × 90 × 48 (mm)
Colour	white
Weight	240g

Approval VdS G201095

Cross-references	Page	Art.Nr.	Name	Type
	26	214034	BCnet Sectional Control Panel/Extension BCE216-3LG	
	32	214234	Fire Detection Control Panel Module/LG BCM216-3ELG	
	35	214021	Loop Interface LIF64-1	

249074

Control Module/Anal./XP95/Apo SMK-55000-849

Addressable compact module with integrated dual-isolator used for the activation of external devices (e.g., fire control, acoustic and optical signalling devices) via the bi-directional communication on the ADM loop using Apollo/Discovery protocol. A dry changeover contact can be used as actuation output.

Features

- ♦ Switch for setting the physical address from 01 to 126

Specifications

Operating voltage	supplied through loop voltage
Current consumption	720µA (quiescent)
Contact load	30VDC/1A (resistive or inductive load)
Ambient temperature	-20°C to +70°C
Dimensions L × W × H	150 × 90 × 48 (mm)
Colour	white
Weight	240g
Approval	VdS G201032

Cross-references	Page	Art.Nr.	Name	Type
	26	214034	BCnet Sectional Control Panel/Extension BCE216-3LG	
	32	214234	Fire Detection Control Panel Module/LG BCM216-3ELG	
	35	214021	Loop Interface LIF64-1	

249075

Conventional Zone Module/Anal./XP95/Apo GWM-55000-845

Addressable compact module with integrated dual-isolator for the integration of conventional detectors into the bi-directional communication on the ADM loop using Apollo/Discovery protocol.



Features

- ◆ Switch for setting the physical address from 01 to 126

Specifications

Operating voltage	supplied through loop voltage
Current consumption	4mA (quiescent)
Line termination	6.2kOhm
Detector current	max. 1mA
Ambient temperature	-20°C to +70°C
Dimensions L × W × H	150 × 90 × 48 (mm)
Colour	white
Weight	230g
Approval	VdS G201094

Cross-references	Page	Art.Nr.	Name	Type
	26	214034	BCnet Sectional Control Panel/Extension BCE216-3LG	
	32	214234	Fire Detection Control Panel Module/LG BCM216-3ELG	
	35	214021	Loop Interface LIF64-1	

249029

Isolator Module/Anal./Apo ISM1-3

Isolator module for the connection to the ADM loop using Apollo/Discovery protocol. If a short circuit appears between two isolator modules, the defective area is separated from the ADM loop and operation of all other connected detectors and modules is guaranteed. For optimum availability, the detection zones on the ADM loop should be separated from each other by isolator modules.



Features

- ◆ Wiring of the ADM loop across several fire areas
- ◆ Full operation of all loop elements not affected by the short circuit
- ◆ LED activation display
- ◆ Installation in commercially available installation sockets

Specifications

Operating voltage	supplied through loop voltage
Current consumption	max. 0.2mA
Ambient temperature	-5°C to +50°C
Dimensions L × W × H	70 × 24 × 15 (mm)
Weight	20g
Approval	VdS G296012

Cross-references	Page	Art.Nr.	Name	Type
	26	214034	BCnet Sectional Control Panel/Extension BCE216-3LG	
	32	214234	Fire Detection Control Panel Module/LG BCM216-3ELG	
	35	214021	Loop Interface LIF64-1	

249070 Isolator Module/Board/Apo 43781-552

Isolator module board for the installation in the housing of a detector, e.g., of a manual call point. If a short circuit appears between two isolator modules, the defective area is separated from the ADM loop and operation of all other connected detectors and modules is guaranteed. For optimum availability, the detection zones on the ADM loop should be separated from each other by isolator modules.

Features

- ◆ Connection to the ADM loop using Apollo/Discovery protocol
- ◆ Wiring of the ADM loop across several fire areas
- ◆ Full operation of all loop elements not affected by the short circuit
- ◆ LED activation display
- ◆ Installation in devices (manual call points, etc.)

Specifications

Operating voltage	supplied through loop voltage
Current consumption	max. 0.2mA
Ambient temperature	-5°C to +50°C
Dimensions L × W × H	approx. 30 × 24 × 8 (mm)
Weight	20g

Cross-references	Page	Art.Nr.	Name	Type
	26	214034	BCnet Sectional Control Panel/Extension BCE216-3LG	
	32	214234	Fire Detection Control Panel Module/LG BCM216-3ELG	
	35	214021	Loop Interface LIF64-1	

16

Accessories for Series 65/ORBIS/XP95/DISCOVERY

246021 Detector Base/Conv./60/65/Apo GSA-45681-200

Mounting base for automatic fire detectors Series 65 in addressable conventional technology, suitable for indoor surface mounting.

Features

- ◆ No electronics contained
- ◆ Multi-useable terminals with secure screw fitting
- ◆ Terminal for external remote indicator
- ◆ Individual detector addressing by installing an optional address module NG60-1
- ◆ Mechanical theft protection

Specifications

Ambient temperature	-20°C to +60°C (no condensation or icing)
Relative humidity	10 to 95% (no condensation)
Dimensions Ø × H	100 × 15 (mm)
Colour	white
Weight	50g

Cross-references	Page	Art.Nr.	Name	Type
	155	249028	Address Module/Conv./Apo NG60-1	
	153	246030	Backplate/Apo SZPL-45681-233	
	153	246029	Conduit Box/Apo SZA-45681-204	
	120	249044	Detector Mounting Bracket MMW1-1	
	126	240027	Ionisation Smoke Detector/Conv./65/Apo GI-55000-217	
	126	241026	Optical Smoke Detector/Conv./65/Apo GO-55000-317	
	121	249640	Protective Cage BWS-1/D1	
	71	251001	Remote Indicator PA58-1	
	129	242027	Thermal Max Detector/Conv./65/Apo GM-55000-137	
	127	242024	Thermal ROR Detector/Conv./65/Apo GD-55000-122	
	127	242025	Thermal ROR Detector/Conv./65/Apo GD-55000-127	
	128	242026	Thermal ROR Detector/Conv./65/Apo GD-55000-132	
	121	249635	Trapezoid Steel Bracket TBH800-1	

246035 Detector Base/Conv./60/65/Apo 45681-251

Mounting base in flush mounting design for automatic fire detectors Series 65, incl. cover plate, in particular for mounting in inserted ceiling made of mineral fibre.

Specifications

Dimensions Ø × H	150 × 15 (mm)
Colour	white
Weight	70g

Cross-references	Page	Art.Nr.	Name	Type
	155	249028	Address Module/Conv./Apo NG60-1	
	126	240027	Ionisation Smoke Detector/Conv./65/Apo GI-55000-217	
	126	241026	Optical Smoke Detector/Conv./65/Apo GO-55000-317	
	71	251001	Remote Indicator PA58-1	
	129	242027	Thermal Max Detector/Conv./65/Apo GM-55000-137	
	127	242024	Thermal ROR Detector/Conv./65/Apo GD-55000-122	
	127	242025	Thermal ROR Detector/Conv./65/Apo GD-55000-127	

246042 Detector Base/Conv./ORBIS/Apo MB-0001

Mounting base for automatic fire detectors Series Orbis in addressable conventional technology, suitable for indoor surface mounting.

**Features**

- ◆ Multi-useable terminals with secure screw fitting
- ◆ Terminal for external remote indicator

Specifications

Ambient temperature	-40°C to +70°C
Relative humidity	0 to 98% (no condensation)
Dimensions Ø × H	100 × 23 (mm)
Colour	white
Weight	60g

Cross-references	Page	Art.Nr.	Name	Type
	155	249028	Address Module/Conv./Apo NG60-1	
	153	246030	Backplate/Apo SZPL-45681-233	
	153	246029	Conduit Box/Apo SZA-45681-204	
	120	249044	Detector Mounting Bracket MMW1-1	
	130	241061	Optical-Thermal Detector/Conv./ORBIS/Apo OH-13001	
	129	241060	Optical Smoke Detector/Conv./ORBIS/Apo OP-12001	
	121	249640	Protective Cage BWS-1/D1	
	71	251001	Remote Indicator PA58-1	
	132	242031	Thermal Max Detector/Conv./ORBIS/Apo HT-11002	
	133	242033	Thermal Max Detector/Conv./ORBIS/Apo HT-11004	
	134	242035	Thermal Max Detector/Conv./ORBIS/Apo HT-11006	
	131	242030	Thermal ROR Detector/Conv./ORBIS/Apo HT-11001	
	132	242032	Thermal ROR Detector/Conv./ORBIS/Apo HT-11003	
	134	242034	Thermal ROR Detector/Conv./ORBIS/Apo HT-11005	
	121	249635	Trapezoid Steel Bracket TBH800-1	

246041 Detector Relay Base/Conv./ORBIS/Apo RB-10004

Mounting base for automatic fire detectors Series Orbis with integrated relay output, suitable for indoor surface mounting. The relay output is active as long as the detector remains in the alarm state. Application must comply with the LST Connection of Detectors.

**Features**

- ◆ Multi-useable terminals with secure screw fitting
- ◆ Relay output with dry changeover contact

Specifications

Current consumption	max. 7mA (active)
Contact rating	1A at 30VDC
Ambient temperature	-40°C to +70°C
Relative humidity	0 to 98% (no condensation)
Dimensions Ø × H	100 × 24 (mm)
Colour	white
Weight	80g

Cross-references	Page	Art.Nr.	Name	Type
	153	246030	Backplate/Apo SZPL-45681-233	
	153	246029	Conduit Box/Apo SZA-45681-204	
	120	249044	Detector Mounting Bracket MMW1-1	

130	241061	Optical-Thermal Detector/Conv./ORBIS/Apo OH-13001
129	241060	Optical Smoke Detector/Conv./ORBIS/Apo OP-12001
121	249640	Protective Cage BWS-1/D1
132	242031	Thermal Max Detector/Conv./ORBIS/Apo HT-11002
133	242033	Thermal Max Detector/Conv./ORBIS/Apo HT-11004
134	242035	Thermal Max Detector/Conv./ORBIS/Apo HT-11006
131	242030	Thermal ROR Detector/Conv./ORBIS/Apo HT-11001
132	242032	Thermal ROR Detector/Conv./ORBIS/Apo HT-11003
134	242034	Thermal ROR Detector/Conv./ORBIS/Apo HT-11005
121	249635	Trapezoid Steel Bracket TBH800-1

246025 Detector Base/Anal./Apo ASA-45681-210

Mounting base used for automatic fire detectors Series XP95 and Discovery, with programmable address card, suitable for indoor surface mounting.



Features

- ◆ Connection to ADM loop using Apollo/Discovery protocol
 - ◆ Easy detector addressing through address card in mounting base
 - ◆ No electronics contained
 - ◆ Multi-useable terminals with secure screw fitting
 - ◆ Terminal for external remote indicator
- ◆ Mechanical theft protection

Specifications

Ambient temperature	-20°C to +60°C (no condensation or icing)
Relative humidity	10 to 95% (no condensation)
Dimensions Ø × H	100 × 15 (mm)
Colour	white
Weight	50g

Cross-references	Page	Art.Nr.	Name	Type
	153	246030	Backplate/Apo SZPL-45681-233	
	141	243100	CO-Detector/Anal./Disc/Apo AC-58000-300	
	153	246029	Conduit Box/Apo SZA-45681-204	
	120	249044	Detector Mounting Bracket MMW1-1	
	138	240026	Ionisation Smoke Detector/Anal./Disc/Apo AI-58000-500	
	136	240024	Ionisation Smoke Detector/Anal./XP95/Apo AI-55000-520	
	141	241022	Optical-Thermal Detector/Anal./Disc/Apo AMS-58000-700	
	138	241030	Optical-Thermal Detector/Anal./XP95/Apo AMS-55000-885	
	139	241027	Optical Smoke Detector/Anal./Disc/Apo AO-58000-600	
	136	241023	Optical Smoke Detector/Anal./XP95/Apo AO-55000-620	
	121	249640	Protective Cage BWS-1/D1	
	71	251001	Remote Indicator PA58-1	
	140	242028	Thermal Detector/Anal./Disc/Apo AD-58000-400	
	137	242023	Thermal Detector/Anal./XP95/Apo AW-55000-420	
	121	249635	Trapezoid Steel Bracket TBH800-1	

246036 Isolator Detector Base/Anal./Apo AISA-45681-321

Mounting base with integrated dual-isolator for automatic fire detectors Series XP95 and Discovery, with programmable address card, suitable for indoor surface mounting.



Features

- ◆ Connection to ADM loop using Apollo/Discovery protocol
 - ◆ Wiring of the ADM loop across several fire areas
 - ◆ Easy detector addressing through address card in mounting base
 - ◆ Full operation of all loop elements not affected by the short circuit
- ◆ Multi-useable terminals with secure screw fitting
- ◆ Terminal for external remote indicator
- ◆ Mechanical theft protection

Specifications

Operating voltage	supplied through loop voltage
Current consumption	max. 43µA
Ambient temperature	-20°C to +60°C (no condensation or icing)
Relative humidity	0 to 95% (no condensation)
Dimensions Ø × H	100 × 24 (mm)
Colour	white
Weight	100g

Cross-references	Page	Art.Nr.	Name	Type
	153	246030	Backplate/Apo SZPL-45681-233	
	141	243100	CO-Detector/Anal./Disc/Apo AC-58000-300	
	153	246029	Conduit Box/Apo SZA-45681-204	
	120	249044	Detector Mounting Bracket MMW1-1	
	138	240026	Ionisation Smoke Detector/Anal./Disc/Apo AI-58000-500	
	136	240024	Ionisation Smoke Detector/Anal./XP95/Apo AI-55000-520	
	141	241022	Optical-Thermal Detector/Anal./Disc/Apo AMS-58000-700	
	138	241030	Optical-Thermal Detector/Anal./XP95/Apo AMS-55000-885	
	139	241027	Optical Smoke Detector/Anal./Disc/Apo AO-58000-600	
	136	241023	Optical Smoke Detector/Anal./XP95/Apo AO-55000-620	
	121	249640	Protective Cage BWS-1/D1	
	71	251001	Remote Indicator PA58-1	
	140	242028	Thermal Detector/Anal./Disc/Apo AD-58000-400	
	137	242023	Thermal Detector/Anal./XP95/Apo AW-55000-420	
	121	249635	Trapezoid Steel Bracket TBH800-1	

246037**Detector Relay Base/Anal./XP95/DISC/Apo ASR-45681-242**

Mounting base for fire detectors Series XP95 and Discovery with integrated relay output, suitable for indoor surface mounting. The relay output is active as long as the detector remains in the alarm state. Application must comply with the LST Connection of Detectors.

Features

- ◆ Multi-useable terminals with secure screw fitting
- ◆ Relay output with dry changeover contact

Specifications

Current consumption	max. 1µA (quiescent), 40µA (active)
Contact rating	1A at 30VDC
Ambient temperature	-20°C to +70°C
Relative humidity	0 to 95% (no condensation)
Dimensions Ø × H	100 × 24 (mm)
Colour	white
Weight	100g

Cross-references	Page	Art.Nr.	Name	Type
	153	246030	Backplate/Apo SZPL-45681-233	
	141	243100	CO-Detector/Anal./Disc/Apo AC-58000-300	
	153	246029	Conduit Box/Apo SZA-45681-204	
	120	249044	Detector Mounting Bracket MMW1-1	
	138	240026	Ionisation Smoke Detector/Anal./Disc/Apo AI-58000-500	
	136	240024	Ionisation Smoke Detector/Anal./XP95/Apo AI-55000-520	
	141	241022	Optical-Thermal Detector/Anal./Disc/Apo AMS-58000-700	
	138	241030	Optical-Thermal Detector/Anal./XP95/Apo AMS-55000-885	
	139	241027	Optical Smoke Detector/Anal./Disc/Apo AO-58000-600	
	136	241023	Optical Smoke Detector/Anal./XP95/Apo AO-55000-620	
	121	249640	Protective Cage BWS-1/D1	
	140	242028	Thermal Detector/Anal./Disc/Apo AD-58000-400	
	137	242023	Thermal Detector/Anal./XP95/Apo AW-55000-420	
	121	249635	Trapezoid Steel Bracket TBH800-1	

246034 Detector Base/Anal./Apo 45681-250

Mounting base in flush mounting design for automatic fire detectors Series XP95 and Discovery with programmable address card, incl. cover plate, in particular for mounting in inserted ceiling made of mineral fibre.

Specifications

Dimensions Ø × H	150 × 15 (mm)
Colour	white
Weight	70g

Cross-references	Page	Art.Nr.	Name	Type
	141	243100	CO-Detector/Anal./Disc/Apo AC-58000-300	
	138	240026	Ionisation Smoke Detector/Anal./Disc/Apo AI-58000-500	
	136	240024	Ionisation Smoke Detector/Anal./XP95/Apo AI-55000-520	
	141	241022	Optical-Thermal Detector/Anal./Disc/Apo AMS-58000-700	
	138	241030	Optical-Thermal Detector/Anal./XP95/Apo AMS-55000-885	
	139	241027	Optical Smoke Detector/Anal./Disc/Apo AO-58000-600	
	136	241023	Optical Smoke Detector/Anal./XP95/Apo AO-55000-620	
	71	251001	Remote Indicator PA58-1	
	140	242028	Thermal Detector/Anal./Disc/Apo AD-58000-400	
	137	242023	Thermal Detector/Anal./XP95/Apo AW-55000-420	

246029 Conduit Box/Apo SZA-45681-204

Supplement base used in addition to detector bases Series 65, XP95 or Discovery, for surface mounting and insertion of installation tubes or thick cables, prepared for PG screw connections.

Specifications

Dimensions Ø × H	100 × 30 (mm)
Colour	white
Weight	60g

Cross-references	Page	Art.Nr.	Name	Type
	151	246025	Detector Base/Anal./Apo ASA-45681-210	
	149	246021	Detector Base/Conv./60/65/Apo GSA-45681-200	
	150	246042	Detector Base/Conv./ORBIS/Apo MB-00001	
	152	246037	Detector Relay Base/Anal./XP95/DISC/Apo ASR-45681-242	
	150	246041	Detector Relay Base/Conv./ORBIS/Apo RB-10004	
	179	246027	IS Detector Base/Anal./Apo ASEX-45681-215	
	151	246036	Isolator Detector Base/Anal./Apo AISA-45681-321	

246030 Backplate/Apo SZPL-45681-233

Supplement base used in addition to detector bases Series 65, XP95 or Discovery, for surface mounting to protect the mounting area against dust or dirt.

Specifications

Dimensions Ø × H	100 × 8 (mm)
Colour	white
Weight	50g

Cross-references	Page	Art.Nr.	Name	Type
	151	246025	Detector Base/Anal./Apo ASA-45681-210	
	149	246021	Detector Base/Conv./60/65/Apo GSA-45681-200	
	150	246042	Detector Base/Conv./ORBIS/Apo MB-00001	
	152	246037	Detector Relay Base/Anal./XP95/DISC/Apo ASR-45681-242	
	150	246041	Detector Relay Base/Conv./ORBIS/Apo RB-10004	
	179	246027	IS Detector Base/Anal./Apo ASEX-45681-215	
	151	246036	Isolator Detector Base/Anal./Apo AISA-45681-321	

246031 Duct Detector Housing/Anal./Apo LG-53546-016

Elegant plastic housing for the surveillance of ventilation ducts, including a detector base for mounting Apollo Series XP95 or Discovery smoke detectors. The air escape pipe as well as the air inlet pipe is included in delivery.

Features

- ◆ Mounting base for Series XP95/Discovery detectors
 - ◆ Applicable in ventilation ducts of 300mm to 1500mm width
 - ◆ Suitable for wind speeds of 1.0m/s to 25m/s
 - ◆ Transparent cover for optical identification of a detector activation
 - ◆ No electronics contained
- ◆ No impact on the operation of the ventilation system
 - ◆ Included drilling template for easy mounting

Specifications

Ambient temperature	0°C to +60°C
Dimensions L × W × H	245 × 110 × 92 (mm)
Colour	grey
Weight	1.5kg

Cross-references	Page	Art.Nr.	Name	Type
	138	240026	Ionisation Smoke Detector/Anal./Disc/Apo AI-58000-500	
	136	240024	Ionisation Smoke Detector/Anal./XP95/Apo AI-55000-520	
	151	246036	Isolator Detector Base/Anal./Apo AISA-45681-321	
	139	241027	Optical Smoke Detector/Anal./Disc/Apo AO-58000-600	
	136	241023	Optical Smoke Detector/Anal./XP95/Apo AO-55000-620	

246032 Detector Heater/Conv./60/65/Apo MH60-1

Mounting base with included heating for the application of an Apollo Series 65 optical smoke detector in extremely moist areas (e.g., loading ramps, cable ducts). A detector base with area heater and an installation box with connection terminals and a remote indicator are mounted together on a mounting plate.

Features

- ◆ Connection terminals for all incoming and outgoing cables

- ◆ Detector base pre-wired on the terminals
- ◆ Additional remote indicator on the installation box

Specifications

Operating voltage	max. 48VAC
Power consumption	12W
Dimensions L × W × H	310 × 175 × 120 (mm)
Weight	1.3kg

Cross-references	Page	Art.Nr.	Name	Type
	126	240027	Ionisation Smoke Detector/Conv./65/Apo GI-55000-217	
	126	241026	Optical Smoke Detector/Conv./65/Apo GO-55000-317	
	119	249014	Power Supply Unit for Detector Heater MH-TR1	

246033 Detector Heater/Anal./Apo MH95-1

Mounting base with included heating for the application of an Apollo Series XP95 or Discovery optical smoke detector in extremely moist areas (e.g., loading ramps, cable ducts). A detector base with area heater and an installation box with connection terminals and a remote



indicator are mounted together on a mounting plate.

Features

- ◆ Connection terminals for all incoming and outgoing cables
- ◆ Detector base pre-wired on the terminals
- ◆ Additional remote indicator on the installation box

Specifications

Operating voltage	max. 48VAC
Power consumption	12W
Dimensions L × W × H	310 × 175 × 120 (mm)
Weight	1.3kg

Cross-references	Page	Art.Nr.	Name	Type
	138	240026	Ionisation Smoke Detector/Anal./Disc/Apo AI-58000-500	
	136	240024	Ionisation Smoke Detector/Anal./XP95/Apo AI-55000-520	
	139	241027	Optical Smoke Detector/Anal./Disc/Apo AO-58000-600	
	136	241023	Optical Smoke Detector/Anal./XP95/Apo AO-55000-620	
	119	249014	Power Supply Unit for Detector Heater MH-TR1	

249028 Address Module/Conv./Apo NG60-1

Electronic component for the application in addressable conventional technology, used for individual or group identification of System Sensor Series 60 and 65 or Orbis automatic conventional detectors as well as manual call points, special detectors and other contact-activating devices.



Features

- ◆ Double-digit indication of the detector number and text assignment on the display of a fire detection control panel
- ◆ Detector number setting from 0 to 63
- ◆ Open collector output for triggering a remote indicator
- ◆ Alternatively applicable for individual detector addressing or identification of a detector group

Specifications

Current consumption at 24V	18mA (active)
Ambient temperature	-5°C to +50°C
Dimensions L × W × H	38 × 19 × 5 (mm) without leads
Weight	50g

Cross-references	Page	Art.Nr.	Name	Type
	35	214020	Conventional Detector Interface GIF8-1	
	149	246035	Detector Base/Conv./60/65/Apo 45681-251	
	149	246021	Detector Base/Conv./60/65/Apo GSA-45681-200	
	150	246042	Detector Base/Conv./ORBIS/Apo MB-00001	
	8	210110	Detector Zone Extension MGE8-1	
	7	210122	Fire and Evacuation Panel BC016-2/INT1	
	6	210102	Fire Detection Control Panel BC016-1/INT1	

249039 Address Cards/100pcs./Anal./XP95/Disc/Apo CK-38531-771

The address card is used for setting the physical address in the detector base of an automatic fire detector Series XP95 or Discovery or a loop strobe. 100 pieces of unprogrammed address card are included in the packing unit.

Note: an address card is included in each detector base.



Features

- ◆ No electronics contained
- ◆ Easy programming
- ◆ Easy to replace

Specifications

Address range	01 to 126
Dimensions L × W × H	55 × 20 × 4 (mm)
Colour	white
Weight per card	2g

17

Manual Call Points

245302 Manual Call Point/EN 54/Red/Conv. HFM/3/11/02

Universal manual call point according to EN 54-11/B in an elegant red aluminium die-cast housing, designed for application in addressable conventional technology.



Features

- ◆ Robust aluminium die-cast housing with a door aperture angle of more than 180°
 - ◆ Operating instructions by means of symbols (European standard)
 - ◆ Optical activation indication by means of LED
 - ◆ Latching push button
 - ◆ Easy to replace standardised glass plate
 - ◆ Individual detector addressing by connecting an optional address module
- ◆ Plenty of room for cabling
 - ◆ Increasing the protection class to IP54 by using the optional Protection Kit for Manual Call Point HFM/HM-ZS-IP54

Specifications

Operating voltage	supplied through detector line voltage
Ambient temperature	-20°C to +60°C (continuous operation) -25°C to +70°C (max. 12 hours)
Protection class	IP43
Dimensions W × H × D	125 × 125 × 34 (mm)
Colour	flame red, RAL 3000
Weight	400g
Approval	VdS G202034

Cross-references	Page	Art.Nr.	Name	Type
	155	249028	Address Module/Conv./Apo NG60-1	
	119	249020	Address Module/Conv. NG58-1	
	35	214020	Conventional Detector Interface GIF8-1	
	8	210110	Detector Zone Extension MGE8-1	
	7	210122	Fire and Evacuation Panel BC016-2/INT1	
	6	210102	Fire Detection Control Panel BC016-1/INT1	
	1	210205	Fire Detection Control Panel BC06-1/INT1	
	3	210209	Fire Detection Control Panel BC06-2/INT1	
	169	219006	Key for Manual Call Point SCH-HFM/HM	
	168	249631	Protection Kit IP54 for Manual Call Point HFM/HM-ZS-IP54	
	167	249633	Protective Cover V2A for Manual Call Point/Red WG/ROT-E-1	
	169	2171612	Replacement Glass for Manual Call Point ET-SCH-HFM	
	4	210210	Zone Extension Board ZEB2-1	

245356 Manual Call Point/Red/Conv. HM/3/11/01/02

Universal manual call point according to EN 54-11/B in an elegant red aluminium die-cast housing, designed for application in addressable conventional technology.



Features

- ◆ Robust aluminium die-cast housing with a door aperture angle of more than 180°
 - ◆ Function marking "FEUERWEHR", replaceable
 - ◆ Optical activation indication by means of LED
 - ◆ Latching push button
 - ◆ Easy to replace standardised glass plate
 - ◆ Individual detector addressing by connecting an optional address module
- ◆ Plenty of room for cabling

- ◆ Increasing the protection class to IP54 by using the optional Protection Kit for Manual Call Point HFM/HM-ZS-IP54

Specifications

Operating voltage	supplied through detector line voltage
Ambient temperature	-20°C to +60°C (continuous operation) -25°C to +70°C (max. 12 hours)
Protection class	IP43
Dimensions W × H × D	125 × 125 × 34 (mm)
Colour	flame red, RAL 3000
Weight	400g
Approval	VdS G202034

Cross-references	Page	Art.Nr.	Name	Type
	155	249028	Address Module/Conv./Apo NG60-1	
	119	249020	Address Module/Conv. NG58-1	
	35	214020	Conventional Detector Interface GIF8-1	
	8	210110	Detector Zone Extension MGE8-1	
	7	210122	Fire and Evacuation Panel BC016-2/INT1	
	6	210102	Fire Detection Control Panel BC016-1/INT1	
	1	210205	Fire Detection Control Panel BC06-1/INT1	
	3	210209	Fire Detection Control Panel BC06-2/INT1	
	169	219006	Key for Manual Call Point SCH-HFM/HM	
	168	249631	Protection Kit IP54 for Manual Call Point HFM/HM-ZS-IP54	
	167	249633	Protective Cover V2A for Manual Call Point/Red WG/ROT-E-1	
	169	2171620	Replacement Glass for Manual Call Point/Red ET-SCH-HM-RT	
	170	249024	Special Designation for Manual Call Point HM/BESCH	
	4	210210	Zone Extension Board ZEB2-1	

245352 Manual Call Point/Blue/Conv. HM/5/11/02/02

Universal manual call point according to EN 54-11/B in an elegant blue aluminium die-cast housing, designed for application in addressable conventional technology.



Features

- ◆ Robust aluminium die-cast housing with a door aperture angle of more than 180°
- ◆ Function marking "HAUSALARM", replaceable
- ◆ Optical activation indication by means of LED
- ◆ Latching (default) or non-latching push button
- ◆ Easy to replace standardised glass plate
- ◆ Individual detector addressing by connecting an optional address module
- ◆ Plenty of room for cabling
- ◆ Increasing the protection class to IP54 by using the optional Protection Kit for Manual Call Point HFM/HM-ZS-IP54

Specifications

Operating voltage	supplied through detector line voltage
Ambient temperature	-20°C to +60°C (continuous operation) -25°C to +70°C (max. 12 hours)
Protection class	IP43
Dimensions W × H × D	125 × 125 × 34 (mm)
Colour	sky blue, RAL 5015
Weight	400g
Approval	VdS G202034

Cross-references	Page	Art.Nr.	Name	Type
	155	249028	Address Module/Conv./Apo NG60-1	
	119	249020	Address Module/Conv. NG58-1	
	35	214020	Conventional Detector Interface GIF8-1	
	8	210110	Detector Zone Extension MGE8-1	
	49	210216	Extinguishing Board BC06 EXB1-1	
	7	210122	Fire and Evacuation Panel BC016-2/INT1	
	6	210102	Fire Detection Control Panel BC016-1/INT1	
	1	210205	Fire Detection Control Panel BC06-1/INT1	
	3	210209	Fire Detection Control Panel BC06-2/INT1	

169	219006	Key for Manual Call Point SCH-HFM/HM
168	249631	Protection Kit IP54 for Manual Call Point HFM/HM-ZS-IP54
167	249634	Protective Cover V2A for Manual Call Point/Blue WG/BLAU-E-1
169	2171621	Replacement Glass for Manual Call Point/Blue ET-SCH-HM-BL
170	249024	Special Designation for Manual Call Point HM/BESCH
4	210210	Zone Extension Board ZEB2-1

245417 Manual Call Point/Blue/Conv. HM/5/11/18/02

The Manual Call Point HM/5/22/18/02 operates as electrical emergency hold device for gas extinguishing systems and is designed for application in addressable conventional technology. The manual call point is accommodated in a blue aluminium die-cast housing and is tested in accordance with the standards EN54-11/B and EN 12094-3.



Features

- ◆ Robust aluminium die-cast housing with an door aperture angle of more than 180°
- ◆ Inscription field 'STOPP-TASTER-Gaslöschanlage', exchangeable
- ◆ Optical indication of activation by LED indicator
- ◆ Push button (non-latching)
- ◆ Standardised glass pane, easy to replace
- ◆ Individual detector identification through connection of an optional address module
- ◆ Plenty of space for cabling
- ◆ Increase of protection class to IP54 via optional Protection Kit for Manual Call Points HFM/HM-ZS-IP54

Specifications

Operating voltage	supplied through loop voltage
Ambient temperature	-20°C to +60°C (continuous operation) -25°C to +70°C (max. 12 hours)
Protection class	IP43
Dimensions W × H × D	125 × 125 × 34 (mm)
Colour	sky blue, RAL 5015
Weight	400g
Approval	VdS G205018

Cross-references	Page	Art.Nr.	Name	Type
	155	249028	Address Module/Conv./Apo NG60-1	
	119	249020	Address Module/Conv. NG58-1	
	35	214020	Conventional Detector Interface GIF8-1	
	49	210216	Extinguishing Board BC06 EXB1-1	
	1	210205	Fire Detection Control Panel BC06-1/INT1	
	3	210209	Fire Detection Control Panel BC06-2/INT1	
	169	219006	Key for Manual Call Point SCH-HFM/HM	
	168	249631	Protection Kit IP54 for Manual Call Point HFM/HM-ZS-IP54	
	167	249634	Protective Cover V2A for Manual Call Point/Blue WG/BLAU-E-1	
	169	2171621	Replacement Glass for Manual Call Point/Blue ET-SCH-HM-BL	
	170	249024	Special Designation for Manual Call Point HM/BESCH	

245355 Manual Call Point/Yellow/Conv. HM/1/11/05/02

Universal manual call point according to EN 54-11/B in an elegant yellow aluminium die-cast housing, designed for application in addressable conventional technology.



Features

- ◆ Robust aluminium die-cast housing with a door aperture angle of more than 180°
- ◆ Function marking "LÖSCHANLAGE", replaceable
- ◆ Optical activation indication by means of LED
- ◆ Latching (default) or non-latching push button

- ◆ Easy to replace standardised glass plate
- ◆ Individual detector addressing by connecting an optional address module
- ◆ Plenty of room for cabling
- ◆ Increasing the protection class to IP54 by using the optional Protection Kit for Manual Call Point HFM/HM-ZS-IP54

Specifications

Operating voltage	supplied through detector line voltage
Ambient temperature	-20°C to +60°C (continuous operation) -25°C to +70°C (max. 12 hours)
Protection class	IP43
Dimensions W × H × D	125 × 125 × 34 (mm)
Colour	rape yellow, RAL 1021
Weight	400g
Approvals	VdS G202034 VdS G205018

Cross-references	Page	Art.Nr.	Name	Type
	155	249028	Address Module/Conv./Apo NG60-1	
	119	249020	Address Module/Conv. NG58-1	
	35	214020	Conventional Detector Interface GIF8-1	
	49	210216	Extinguishing Board BC06 EXB1-1	
	1	210205	Fire Detection Control Panel BC06-1/INT1	
	3	210209	Fire Detection Control Panel BC06-2/INT1	
	169	219006	Key for Manual Call Point SCH-HFM/HM	
	168	249631	Protection Kit IP54 for Manual Call Point HFM/HM-ZS-IP54	
	168	249636	Protective Cover V2A for Manual Call Point/Yellow WG/GELB-E-1	
	169	2171619	Replacement Glass for Manual Call Point/Yellow ET-SCH-HM-GE	
	170	249024	Special Designation for Manual Call Point HM/BESCH	

245362

Manual Call Point/Red/Anal./SS HFM/3/22/02

Manual call point according to EN 54-11/B in an elegant red aluminium die-cast housing, designed for application on the ADM loop (ring-bus technology) using System Sensor/200 protocol, with integrated dual-isolator module.



Features

- ◆ Robust aluminium die-cast housing with an door aperture angle of more than 180°
- ◆ Operating instructions by means of symbols (European standard)
- ◆ Integrated dual-isolator
- ◆ Reverse polarity protection
- ◆ Built-in microcontroller
- ◆ Operating instructions by means of symbols (European standard)
- ◆ Optical activation indication by means of LED
- ◆ Latching push button
- ◆ Easy to replace standardised glass plate
- ◆ Button in combination with LED for setting the physical address
- ◆ Plenty of room for cabling
- ◆ Increasing the protection class to IP54 by using the optional Protection Kit for Manual Call Point HFM/HM-ZS-IP54

Specifications

Operating voltage	supplied through loop voltage
Current consumption	300µA (quiescent)
Ambient temperature	-20°C to +60°C (continuous operation) -25°C to +70°C (max. 12 hours)
Protection class	IP43
Dimensions W × H × D	125 × 125 × 34 (mm)
Colour	flame red, RAL 3000
Weight	400g
Approval	VdS G202035

Cross-references	Page	Art.Nr.	Name	Type
	26	214034	BCnet Sectional Control Panel/Extension BCE216-3LG	
	32	214234	Fire Detection Control Panel Module/LG BCM216-3ELG	
	169	219006	Key for Manual Call Point SCH-HFM/HM	
	35	214021	Loop Interface LIF64-1	
	168	249631	Protection Kit IP54 for Manual Call Point HFM/HM-ZS-IP54	
	167	249633	Protective Cover V2A for Manual Call Point/Red WG/ROT-E-1	
	169	2171612	Replacement Glass for Manual Call Point ET-SCH-HFM	

245372 Manual Call Point/Blue/Anal./SS HM/5/22/02/02

Manual call point according to EN 54-11/B in an elegant blue aluminium die-cast housing, designed for application on the ADM loop (ring-bus technology) using System Sensor/200 protocol, with integrated dual-isolator module.



Features

- ◆ Robust aluminium die-cast housing with a door aperture angle of more than 180°
 - ◆ Function marking "HAUSALARM", replaceable
 - ◆ Integrated dual-isolator
 - ◆ Reverse polarity protection
 - ◆ Built-in microcontroller
 - ◆ Optical activation indication by means of LED
 - ◆ Latching push button
- ◆ Easy to replace standardised glass plate
 - ◆ Button in combination with LED for setting the physical address
 - ◆ Plenty of room for cabling
 - ◆ Increasing the protection class to IP54 by using the optional Protection Kit for Manual Call Point HFM/HM-ZS-IP54

Specifications

Operating voltage	supplied through loop voltage
Current consumption	300µA (quiescent)
Ambient temperature	-20°C to +60°C (continuous operation) -25°C to +70°C (max. 12 hours)
Protection class	IP43
Dimensions W × H × D	125 × 125 × 34 (mm)
Colour	sky blue, RAL 5015
Weight	400g
Approval	VdS G202035

Cross-references	Page	Art.Nr.	Name	Type
	26	214034	BCnet Sectional Control Panel/Extension BCE216-3LG	
	32	214234	Fire Detection Control Panel Module/LG BCM216-3ELG	
	169	219006	Key for Manual Call Point SCH-HFM/HM	
	35	214021	Loop Interface LIF64-1	
	168	249631	Protection Kit IP54 for Manual Call Point HFM/HM-ZS-IP54	
	167	249634	Protective Cover V2A for Manual Call Point/Blue WG/BLAU-E-1	
	169	2171621	Replacement Glass for Manual Call Point/Blue ET-SCH-HM-BL	
	170	249024	Special Designation for Manual Call Point HM/BESCH	

245415 Manual Call Point/Blue/Anal./SS HM/5/22/18/02

The Manual Call Point HM/5/22/18/02 operates as electrical emergency hold device for gas extinguishing systems and is designed for use on the ADM loop using System Sensor/200 protocol. An integrated dual-isolator module disconnects the loop at short circuit. The manual



call point is accommodated in a blue aluminium die-cast housing and is tested in accordance with the standards EN54-11/B, EN 54-17 and EN 12094-3.

Features

- ◆ Robust aluminium die-cast housing with an door aperture angle of more than 180°
- ◆ Inscription field 'STOPP-TASTER-Gaslöschanlage', exchangeable
- ◆ Integrated dual-isolator
- ◆ Reverse polarity protection
- ◆ Integrated microcontroller
- ◆ Optical indication of activation by LED indicator
- ◆ Push button (non-latching)
- ◆ Standardised glass pane, easy to replace
- ◆ Setting of physical address with button in combination with LED indicator
- ◆ Plenty of space for cabling
- ◆ Increase of protection class to IP54 via optional Protection Kit for Manual Call Points HFM/HM-ZS-IP54

Specifications

Operating voltage	supplied through loop voltage
Current consumption	300µA (quiescent)
Ambient temperature	-20°C to +60°C (continuous operation) -25°C to +70°C (max. 12 hours)
Protection class	IP43
Dimensions W × H × D	125 × 125 × 34 (mm)
Colour	sky blue, RAL 5015
Weight	400g
Approval	VdS G206130

Cross-references	Page	Art.Nr.	Name	Type
	26	214034	BCnet Sectional Control Panel/Extension BCE216-3LG	
	32	214234	Fire Detection Control Panel Module/LG BCM216-3ELG	
	169	219006	Key for Manual Call Point SCH-HFM/HM	
	35	214021	Loop Interface LIF64-1	
	168	249631	Protection Kit IP54 for Manual Call Point HFM/HM-ZS-IP54	
	167	249634	Protective Cover V2A for Manual Call Point/Blue WG/BLAU-E-1	
	169	2171621	Replacement Glass for Manual Call Point/Blue ET-SCH-HM-BL	
	170	249024	Special Designation for Manual Call Point HM/BESCH	

245392 Manual Call Point/Yellow/Anal./SS HM/1/22/05/02

Manual call point according to EN 54-11/B in an elegant yellow aluminium die-cast housing, designed for application on the ADM loop (ring-bus technology) using System Sensor/200 protocol, with integrated dual-isolator module.



Features

- ◆ Robust aluminium die-cast housing with a door aperture angle of more than 180°
- ◆ Function marking "LÖSCHANLAGE", replaceable
- ◆ Integrated dual-isolator
- ◆ Reverse polarity protection
- ◆ Built-in microcontroller
- ◆ Optical activation indication by means of LED
- ◆ Latching push button
- ◆ Easy to replace standardised glass plate
- ◆ Button in combination with LED for setting the physical address
- ◆ Plenty of room for cabling
- ◆ Increasing the protection class to IP54 by using the optional Protection Kit for Manual Call Point HFM/HM-ZS-IP54

Specifications

Operating voltage	supplied through loop voltage
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Current consumption	300µA (quiescent)
Ambient temperature	-20°C to +60°C (continuous operation) -25°C to +70°C (max. 12 hours)
Protection class	IP43
Dimensions W × H × D	125 × 125 × 34 (mm)
Colour	rape yellow, RAL 1021
Weight	400g
Approvals	VdS G202035 VdS G206129

Cross-references	Page	Art.Nr.	Name	Type
	26	214034	BCnet Sectional Control Panel/Extension BCE216-3LG	
	32	214234	Fire Detection Control Panel Module/LG BCM216-3ELG	
	169	219006	Key for Manual Call Point SCH-HFM/HM	
	35	214021	Loop Interface LIF64-1	
	168	249631	Protection Kit IP54 for Manual Call Point HFM/HM-ZS-IP54	
	168	249636	Protective Cover V2A for Manual Call Point/Yellow WG/GELB-E-1	
	169	2171619	Replacement Glass for Manual Call Point/Yellow ET-SCH-HM-GE	
	170	249024	Special Designation for Manual Call Point HM/BESCH	

245389 Manual Call Point/Grey/Anal./SS HM/7/22/03/02

The manual call point according to EN 54-11/B is accommodated in a robust, grey aluminium die-cast housing. The detector is designed for use on the ADM loop (ring-bus technology) using System Sensor/200 protocol. An integrated dual-isolator module disconnects the loop at short circuit.



Features

- ◆ Robust aluminium die-cast housing with an door aperture angle of more than 180°
- ◆ Inscription field 'RAUCHABZUG', exchangeable
- ◆ Integrated dual-isolator
- ◆ Reverse polarity protection
- ◆ Integrated microcontroller
- ◆ Optical indication of activation by LED indicator
- ◆ Latching push button
- ◆ Standardised glass pane, easy to replace
- ◆ Setting of physical address with button in combination with LED indicator
- ◆ Plenty of space for cabling
- ◆ Increase of protection class to IP54 via optional Protection Kit for Manual Call Points HFM/HM-ZS-IP54

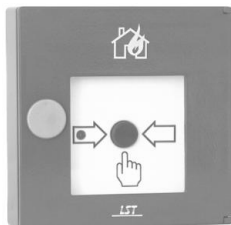
Specifications

Operating voltage	supplied through loop voltage
Current consumption	300µA (quiescent)
Ambient temperature	-20°C to +60°C (continuous operation) -25°C to +70°C (max. 12 hours)
Protection class	IP43
Dimensions W × H × D	125 × 125 × 34 (mm)
Colour	light grey, RAL 7035
Weight	400g
Approval	VdS G202035

Cross-references	Page	Art.Nr.	Name	Type
	26	214034	BCnet Sectional Control Panel/Extension BCE216-3LG	
	32	214234	Fire Detection Control Panel Module/LG BCM216-3ELG	
	169	219006	Key for Manual Call Point SCH-HFM/HM	
	35	214021	Loop Interface LIF64-1	
	168	249631	Protection Kit IP54 for Manual Call Point HFM/HM-ZS-IP54	
	169	2171612	Replacement Glass for Manual Call Point ET-SCH-HFM	
	170	249024	Special Designation for Manual Call Point HM/BESCH	

245402 Manual Call Point/EN 54/Red/Anal./Apo HFM/3/32/02

Manual call point according to EN 54-11/B in an elegant red aluminium die-cast housing, designed for application on the ADM loop using Apollo/Discovery protocol, with integrated dual-isolator module. The manual call point is tested in accordance with the standards EN 54-11/B and EN 54-17.

Features

- ◆ Robust aluminium die-cast housing with a door aperture angle of more than 180°
- ◆ Operating instructions by means of symbols (European standard)
- ◆ Integrated dual-isolator
- ◆ Reverse polarity protection
- ◆ Built-in microcontroller
- ◆ Optical activation indication by means of LED
- ◆ Latching push button
- ◆ Easy to replace standardised glass plate
- ◆ Button in combination with LED for setting the physical address
- ◆ Plenty of room for cabling
- ◆ Increasing the protection class to IP54 by using the optional Protection Kit for Manual Call Point HFM/HM-ZS-IP54

Specifications

Operating voltage	supplied through the loop voltage
Current consumption	180µA (quiescent)
Ambient temperature	-20°C to +60°C (continuous operation) -25°C to +70°C (max. 12 hours)
Protection class	IP43
Dimensions W × H × D	125 × 125 × 34 (mm)
Colour	flame red, RAL 3000
Weight	400g
Approval	VdS G204003

Cross-references	Page	Art.Nr.	Name	Type
	26	214034	BCnet Sectional Control Panel/Extension BCE216-3LG	
	32	214234	Fire Detection Control Panel Module/LG BCM216-3ELG	
	169	219006	Key for Manual Call Point SCH-HFM/HM	
	35	214021	Loop Interface LIF64-1	
	168	249631	Protection Kit IP54 for Manual Call Point HFM/HM-ZS-IP54	
	167	249633	Protective Cover V2A for Manual Call Point/Red WG/ROT-E-1	
	169	2171612	Replacement Glass for Manual Call Point ET-SCH-HFM	

245395 Manual Call Point/Blue/Anal./Apo HM/5/32/02/02

Manual call point according to EN 54-11/B with dual-isolator module integrated in an elegant blue aluminium die-cast housing, designed for application on the ADM loop using Apollo/Discovery protocol. The manual call point is tested in accordance with the standards EN 54-11/B and EN 54-17.

Features

- ◆ Robust aluminium die-cast housing with a door aperture angle of more than 180°
- ◆ Function marking "HAUSALARM", replaceable
- ◆ Integrated dual-isolator
- ◆ Reverse polarity protection
- ◆ Built-in microcontroller
- ◆ Optical activation indication by means of LED
- ◆ Latching push button
- ◆ Easy to replace standardised glass plate
- ◆ Button in combination with LED for setting the physical address
- ◆ Plenty of room for cabling
- ◆ Increasing the protection class to IP54 by using the optional Protection Kit for Manual Call Point HFM/HM-ZS-IP54

Specifications

Operating voltage	supplied through loop voltage
Current consumption	180µA (quiescent)
Ambient temperature	-20°C to +60°C (continuous operation) -25°C to +70°C (max. 12 hours)
Protection class	IP43
Dimensions W × H × D	125 × 125 × 34 (mm)
Colour	sky blue, RAL 5015
Weight	400g
Approval	VdS G204003

Cross-references	Page	Art.Nr.	Name	Type
	26	214034	BCnet Sectional Control Panel/Extension BCE216-3LG	
	32	214234	Fire Detection Control Panel Module/LG BCM216-3ELG	
	169	219006	Key for Manual Call Point SCH-HFM/HM	
	35	214021	Loop Interface LIF64-1	
	168	249631	Protection Kit IP54 for Manual Call Point HFM/HM-ZS-IP54	
	167	249634	Protective Cover V2A for Manual Call Point/Blue WG/BLAU-E-1	
	169	2171621	Replacement Glass for Manual Call Point/Blue ET-SCH-HM-BL	
	170	249024	Special Designation for Manual Call Point HM/BESCH	

245429

Manual Call Point/Blue/Anal./Apo HM/5/32/18/02

The Manual Call Point HM/5/32/18/02 operates as electrical emergency hold device for gas extinguishing systems and is designed for use on the ADM loop using Apollo/Discovery protocol. An integrated dual-isolator module disconnects the loop at short circuit. The manual call point is accommodated in a blue aluminium die-cast housing and is tested in accordance with the standards EN54-11/B, EN 54-17 and EN 12094-3.

Features

- ◆ Robust aluminium die-cast housing with an door aperture angle of more than 180°
- ◆ Inscription field 'STOPP-TASTER-Gaslöschanlage', exchangeable
- ◆ Integrated dual-isolator
- ◆ Reverse polarity protection
- ◆ Integrated microcontroller
- ◆ Optical indication of activation by LED indicator
- ◆ Push button (non-latching)
- ◆ Standardised glass pane, easy to replace
- ◆ Setting of physical address with button in combination with LED indicator
- ◆ Plenty of space for cabling
- ◆ Increase of protection class to IP54 via optional Protection Kit for Manual Call Points HFM/HM-ZS-IP54

Specifications

Operating voltage	supplied through loop voltage
Current consumption	180µA (quiescent)
Ambient temperature	-20°C to +60°C (continuous operation) -25°C to +70°C (max. 12 hours)
Protection class	IP43
Dimensions W × H × D	125 × 125 × 34 (mm)
Colour	sky blue, RAL 5015
Weight	400g
Approval	VdS G206128

Cross-references	Page	Art.Nr.	Name	Type
	26	214034	BCnet Sectional Control Panel/Extension BCE216-3LG	
	32	214234	Fire Detection Control Panel Module/LG BCM216-3ELG	
	169	219006	Key for Manual Call Point SCH-HFM/HM	
	35	214021	Loop Interface LIF64-1	
	168	249631	Protection Kit IP54 for Manual Call Point HFM/HM-ZS-IP54	
	167	249634	Protective Cover V2A for Manual Call Point/Blue WG/BLAU-E-1	
	169	2171621	Replacement Glass for Manual Call Point/Blue ET-SCH-HM-BL	

245396 Manual Call Point/Yellow/Anal./Apo HM/1/32/05/02

Manual call point according to EN 54-11/B with dual-isolator module integrated in an elegant yellow aluminium die-cast housing, designed for application on the ADM loop using Apollo/Discovery protocol. The manual call point is tested in accordance with the standards EN 54-11/B and EN 54-17.

**Features**

- ◆ Robust aluminium die-cast housing with a door aperture angle of more than 180°
 - ◆ Function marking "LÖSCHANLAGE", replaceable
 - ◆ Integrated dual-isolator
 - ◆ Reverse polarity protection
 - ◆ Built-in microcontroller
 - ◆ Optical activation indication by means of LED
 - ◆ Latching push button
- ◆ Easy to replace standardised glass plate
 - ◆ Button in combination with LED for setting the physical address
 - ◆ Plenty of room for cabling
 - ◆ Increasing the protection class to IP54 by using the optional Protection Kit for Manual Call Point HFM/HM-ZS-IP54

Specifications

Operating voltage	supplied through loop voltage
Current consumption	180µA (quiescent)
Ambient temperature	-20°C to +60°C (continuous operation) -25°C to +70°C (max. 12 hours)
Protection class	IP43
Dimensions W × H × D	125 × 125 × 34 (mm)
Colour	rape yellow, RAL 1021
Weight	400g
Approval	VdS G204003 VdS G206127

Cross-references	Page	Art.Nr.	Name	Type
	26	214034	BCnet Sectional Control Panel/Extension BCE216-3LG	
	32	214234	Fire Detection Control Panel Module/LG BCM216-3ELG	
	169	219006	Key for Manual Call Point SCH-HFM/HM	
	35	214021	Loop Interface LIF64-1	
	168	249631	Protection Kit IP54 for Manual Call Point HFM/HM-ZS-IP54	
	168	249636	Protective Cover V2A for Manual Call Point/Yellow WG/GELB-E-1	
	169	2171619	Replacement Glass for Manual Call Point/Yellow ET-SCH-HM-GE	
	170	249024	Special Designation for Manual Call Point HM/BESCH	

249096 MCP Coding Module MCM1-1

The MCP Coding Module MCM1-1 enables the combined connection of automatic detectors and manual call points to one detector line of a Fire Detection Control Panel Series BC06.

The control panel can distinguish activation of an automatic detector and of a manual call point with the help of the coding module and can react accordingly. The coding module is optionally installed in every manual call point on the respective zone.

**Specifications**

Current consumption at 24V	typ. 20mA (detector activated)
Ambient temperature	-5°C to +50°C
Dimensions L × W × H	30 × 18 × 4 (mm) without leads
Weight	6g

Cross-references	Page	Art.Nr.	Name	Type
	1	210205	Fire Detection Control Panel BC06-1/INT1	
	3	210209	Fire Detection Control Panel BC06-2/INT1	

249633 Protective Cover V2A for Manual Call Point/Red WG/ROT-E-1

Red powder-coated protective cover made of V2A stainless steel used as supplement for manual call points installed in open areas



Features

- ◆ Top-side and lateral rain protection
- ◆ Mechanical protection
- ◆ Cable entry from back side or, alternatively, bottom side through the cable gland of the manual call point

Specifications

Dimensions W × H × D	130 × 145 × 55 (mm)
Colour	flame red, RAL 3000
Weight	250g

Cross-references	Page	Art.Nr.	Name	Type
	164	245402	Manual Call Point/EN 54/Red/Anal./Apo HFM/3/32/02	
	157	245302	Manual Call Point/EN 54/Red/Conv. HFM/3/11/02	
	160	245362	Manual Call Point/Red/Anal./SS HFM/3/22/02	
	157	245356	Manual Call Point/Red/Conv. HM/3/11/01/02	

249634 Protective Cover V2A for Manual Call Point/Blue WG/BLAU-E-1

Blue powder-coated protective cover made of V2A stainless steel used as supplement for manual call points installed in open areas



Features

- ◆ Top-side and lateral rain protection
- ◆ Mechanical protection
- ◆ Cable entry from back side or, alternatively, bottom side through the cable gland of the manual call point

Specifications

Dimensions W × H × D	130 × 145 × 55 (mm)
Colour	sky blue, RAL 5015
Weight	250g

Cross-references	Page	Art.Nr.	Name	Type
	164	245395	Manual Call Point/Blue/Anal./Apo HM/5/32/02/02	
	165	245429	Manual Call Point/Blue/Anal./Apo HM/5/32/18/02	
	161	245372	Manual Call Point/Blue/Anal./SS HM/5/22/02/02	
	161	245415	Manual Call Point/Blue/Anal./SS HM/5/22/18/02	
	158	245352	Manual Call Point/Blue/Conv. HM/5/11/02/02	
	159	245417	Manual Call Point/Blue/Conv. HM/5/11/18/02	

249636 Protective Cover V2A for Manual Call Point/Yellow WG/GELB-E-1

Yellow powder-coated protective cover made of V2A stainless steel used as supplement for manual call points installed in open areas

Features

- ◆ Top-side and lateral rain protection
- ◆ Mechanical protection
- ◆ Cable entry from back side or, alternatively, bottom side through the cable gland of the manual call point

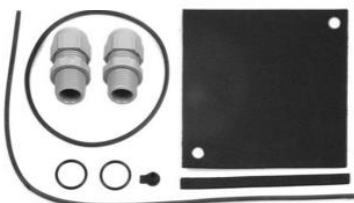
Specifications

Dimensions W × H × D	130 × 145 × 55 (mm)
Colour	rape yellow, RAL 1021
Weight	250g

Cross-references	Page	Art.Nr.	Name	Type
	166	245396	Manual Call Point/Yellow/Anal./Apo	HM/1/32/05/02
	162	245392	Manual Call Point/Yellow/Anal./SS	HM/1/22/05/02
	159	245355	Manual Call Point/Yellow/Conv.	HM/1/11/05/02

249631 Protection Kit IP54 for Manual Call Point HFM/HM-ZS-IP54

The accessory kit is used for increasing the protection class of manual call points according to EN 54-11/B to IP54. The kit includes gasket elements, a cable gland M20x1 and a mounting instruction.



Cross-references	Page	Art.Nr.	Name	Type
	164	245395	Manual Call Point/Blue/Anal./Apo	HM/5/32/02/02
	165	245429	Manual Call Point/Blue/Anal./Apo	HM/5/32/18/02
	161	245372	Manual Call Point/Blue/Anal./SS	HM/5/22/02/02
	161	245415	Manual Call Point/Blue/Anal./SS	HM/5/22/18/02
	158	245352	Manual Call Point/Blue/Conv.	HM/5/11/02/02
	159	245417	Manual Call Point/Blue/Conv.	HM/5/11/18/02
	164	245402	Manual Call Point/EN 54/Red/Anal./Apo	HFM/3/32/02
	157	245302	Manual Call Point/EN 54/Red/Conv.	HFM/3/11/02
	163	245389	Manual Call Point/Grey/Anal./SS	HM/7/22/03/02
	160	245362	Manual Call Point/Red/Anal./SS	HFM/3/22/02
	157	245356	Manual Call Point/Red/Conv.	HM/3/11/01/02
	166	245396	Manual Call Point/Yellow/Anal./Apo	HM/1/32/05/02
	162	245392	Manual Call Point/Yellow/Anal./SS	HM/1/22/05/02
	159	245355	Manual Call Point/Yellow/Conv.	HM/1/11/05/02

219006 Key for Manual Call Point SCH-HFM/HM

Standard key for opening doors of various components of fire alarm technology, e.g., manual call points, Fire Brigade Control Units FBF58-1, FBF58-2, Fire Brigade Key Safe Adapters AD800-1 and Fire Brigade Map Boxes FWP-1.

**2171612 Replacement Glass for Manual Call Point ET-SCH-HFM**

Standardised replacement glass for manual call points without marking.

Specifications

Dimensions W × H × D 80 × 80 × 0.7 (mm)

Cross-references	Page	Art.Nr.	Name	Type
	164	245402	Manual Call Point/EN 54/Red/Anal./Apo HFM/3/32/02	
	157	245302	Manual Call Point/EN 54/Red/Conv. HFM/3/11/02	
	163	245389	Manual Call Point/Grey/Anal./SS HM/7/22/03/02	
	160	245362	Manual Call Point/Red/Anal./SS HFM/3/22/02	

2171620 Replacement Glass for Manual Call Point/Red ET-SCH-HM-RT

Standardised replacement glass for manual call points with red marking.

Specifications

Dimensions W × H × D 80 × 80 × 0.7 (mm)

Cross-references	Page	Art.Nr.	Name	Type
	157	245356	Manual Call Point/Red/Conv. HM/3/11/01/02	

2171621 Replacement Glass for Manual Call Point/Blue ET-SCH-HM-BL

Standardised replacement glass for manual call points with blue marking.

Specifications

Dimensions W × H × D 80 × 80 × 0.7 (mm)

Cross-references	Page	Art.Nr.	Name	Type
	164	245395	Manual Call Point/Blue/Anal./Apo HM/5/32/02/02	
	165	245429	Manual Call Point/Blue/Anal./Apo HM/5/32/18/02	
	161	245372	Manual Call Point/Blue/Anal./SS HM/5/22/02/02	
	161	245415	Manual Call Point/Blue/Anal./SS HM/5/22/18/02	
	158	245352	Manual Call Point/Blue/Conv. HM/5/11/02/02	
	159	245417	Manual Call Point/Blue/Conv. HM/5/11/18/02	

2171619 Replacement Glass for Manual Call Point/Yellow ET-SCH-HM-GE

Standardised replacement glass for manual call points with yellow marking.

Specifications

Dimensions W × H × D 80 × 80 × 0.7 (mm)

Cross-references	Page	Art.Nr.	Name	Type
	166	245396	Manual Call Point/Yellow/Anal./Apo HM/1/32/05/02	
	162	245392	Manual Call Point/Yellow/Anal./SS HM/1/22/05/02	

249024 Special Designation for Manual Call Point HM/BESCH

Allows you to modify the labelling of a manual call point. The desired wording has to be specified upon order.

Cross-references	Page	Art.Nr.	Name	Type
	164	245395	Manual Call Point/Blue/Anal./Apo	HM/5/32/02/02
	165	245429	Manual Call Point/Blue/Anal./Apo	HM/5/32/18/02
	161	245372	Manual Call Point/Blue/Anal./SS	HM/5/22/02/02
	161	245415	Manual Call Point/Blue/Anal./SS	HM/5/22/18/02
	158	245352	Manual Call Point/Blue/Conv.	HM/5/11/02/02
	159	245417	Manual Call Point/Blue/Conv.	HM/5/11/18/02
	163	245389	Manual Call Point/Grey/Anal./SS	HM/7/22/03/02
	157	245356	Manual Call Point/Red/Conv.	HM/3/11/01/02
	166	245396	Manual Call Point/Yellow/Anal./Apo	HM/1/32/05/02
	162	245392	Manual Call Point/Yellow/Anal./SS	HM/1/22/05/02
	159	245355	Manual Call Point/Yellow/Conv.	HM/1/11/05/02

245040 Manual Call Point/Red/200/Glass MCP5A-RP07FG

The manual call point according to EN 54-11/A is accommodated in a red plastic housing and is activated by breaking the glass pane. The detector is designed for use on the ADM loop (ring-bus technology) using System Sensor/200 protocol.

**Features**

- ◆ Operating instructions by symbols (European Standard)
- ◆ Activation by breaking glass pane
- ◆ Glass pane easy to replace
- ◆ Detector housing can be opened only with a special key (provided)
- ◆ 2 decadic rotary switches for setting the address from 01 to 99

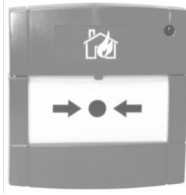
Specifications

Operating voltage	supplied through loop voltage
Current consumption	260µA (quiescent)
Ambient temperature	-10°C to +55°C
Relative humidity	0 - 95% (no condensation)
Protection class	IP24
Dimensions W × H × D	89 × 93 × 28 (mm)
Colour	flame red, RAL 3000
Weight	160g
Approvals	LPCB 166b/45, 166b/46

Cross-references	Page	Art.Nr.	Name	Type
	26	214034	BCnet Sectional Control Panel/Extension	BCE216-3LG
	32	214234	Fire Detection Control Panel Module/LG	BCM216-3ELG
	173	249213	Glass for MCP Series/10pcs.	G21140
	35	214021	Loop Interface LIF64-1	
	173	245019	Surface Mount Box/MCP5A SR	
	173	245012	Surface Mount Box/MCP5A SR3T	

245041 Manual Call Point/Red/200/ISM/Glass MCP5A-RP08FG

The manual call point according to EN 54-11/A is accommodated in a red plastic housing and is activated by breaking the glass pane. The detector contains a dual-isolator and is designed for use on the ADM loop (ring-bus technology) using System Sensor/200 protocol.

Features

- ◆ Operating instructions by using symbols (European Standard)
- ◆ Activation by breaking glass pane
- ◆ Glass pane easy to replace
- ◆ Detector housing can be opened only with a special key (provided)
- ◆ 2 decadic rotary switches for setting the address from 01 to 99
- ◆ Dual loop isolator

Specifications

Operating voltage	supplied through loop voltage
Current consumption	360µA (quiescent)
Ambient temperature	-10°C to +55°C
Relative humidity	0 - 95% (no condensation)
Protection class	IP24
Dimensions W × H × D	89 × 93 × 28 (mm)
Colour	flame red, RAL 3000
Weight	160g
Approvals	LPCB 166b/45, 166b/46

Cross-references	Page	Art.Nr.	Name	Type
	26	214034	BCnet Sectional Control Panel/Extension BCE216-3LG	
	32	214234	Fire Detection Control Panel Module/LG BCM216-3ELG	
	173	249213	Glass for MCP Series/10pcs. G21140	
	35	214021	Loop Interface LIF64-1	
	173	245019	Surface Mount Box/MCP5A SR	
	173	245012	Surface Mount Box/MCP5A SR3T	

245042 Manual Call Point/Red/200/Flexi MCP5A-RP07FF

The manual call point according to EN 54-11/A is accommodated in a red plastic housing and is activated by pressing in the plastic pane without breaking it. The pane can be placed again into the idle position with a special key, thereby resetting the detector. The detector is designed for use on the ADM loop (ring-bus technology) using System Sensor/200 protocol.

Features

- ◆ Operating instructions by symbols (European Standard)
- ◆ Activation by pressing in plastic pane without breaking it
- ◆ Plastic pane easy to reset
- ◆ Detector housing can be opened only with a special key (provided)
- ◆ 2 decadic rotary switches for setting the address from 01 to 99

Specifications

Operating voltage	supplied through loop voltage
Current consumption	260µA (quiescent)
Ambient temperature	-10°C to +55°C
Relative humidity	0 - 95% (no condensation)
Protection class	IP24
Dimensions W × H × D	89 × 93 × 28 (mm)
Colour	flame red, RAL 3000
Weight	160g
Approvals	LPCB 166b/45, 166b/46

Cross-references	Page	Art.Nr.	Name	Type
	26	214034	BCnet Sectional Control Panel/Extension BCE216-3LG	
	32	214234	Fire Detection Control Panel Module/LG BCM216-3ELG	
	35	214021	Loop Interface LIF64-1	
	173	245019	Surface Mount Box/MCP5A SR	
	173	245012	Surface Mount Box/MCP5A SR3T	

245043 Manual Call Point/Red/200/ISM/Flexi MCP5A-RP08FF

The manual call point according to EN 54-11/A is accommodated in a red plastic housing and is activated by pressing in the plastic pane without breaking it. The pane can be placed again into the idle position with a special key, thereby resetting the detector. The detector contains a dual-isolator and is designed for use on the ADM loop (ring-bus technology) using System Sensor/200 protocol.

Features

- ◆ Operating instructions by symbols (European Standard)
- ◆ Activation by pressing in plastic pane without breaking it
- ◆ Plastic pane easy to reset
- ◆ Detector housing can be opened only with a special key (provided)
- ◆ 2 decadic rotary switches for setting the address from 01 to 99

- ◆ Dual loop isolator

Specifications

Operating voltage	supplied through loop voltage
Current consumption	360µA (quiescent)
Ambient temperature	-10°C to +55°C
Relative humidity	0 - 95% (no condensation)
Protection class	IP24
Dimensions W × H × D	89 × 93 × 28 (mm)
Colour	flame red, RAL 3000
Weight	160g
Approvals	LPCB 166b/45, 166b/46

Cross-references	Page	Art.Nr.	Name	Type
	26	214034	BCnet Sectional Control Panel/Extension BCE216-3LG	
	32	214234	Fire Detection Control Panel Module/LG BCM216-3ELG	
	35	214021	Loop Interface LIF64-1	
	173	245019	Surface Mount Box/MCP5A SR	
	173	245012	Surface Mount Box/MCP5A SR3T	

245014 Manual Call Point/Anal./XP95/Apo 55000-905

Manual call point according to EN 54-11/A in an elegant red plastic housing for application on the ADM loop (ring-bus technology) using Apollo/Discovery protocol.

Features

- ◆ Operating instructions by means of symbols (European standard)
- ◆ Activation by breaking the glass plate
- ◆ Easy to replace glass plate
- ◆ DIL switch for setting the physical address between 01 and 126

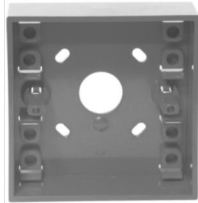
Specifications

Operating voltage	supplied through loop voltage
Ambient temperature	0°C to +60°C
Protection class	IP53
Dimensions W × H × D	87 × 87 × 52 (mm)
Colour	flame red, RAL 3000
Weight	190g

Cross-references	Page	Art.Nr.	Name	Type
	26	214034	BCnet Sectional Control Panel/Extension BCE216-3LG	
	32	214234	Fire Detection Control Panel Module/LG BCM216-3ELG	
	173	249213	Glass for MCP Series/10pcs. G21140	
	35	214021	Loop Interface LIF64-1	

245019 Surface Mount Box/MCP5A SR

The box made of red plastic is used for surface mounting of Manual Call Points MCP5A-RP07Fx and MCP5A-RP08Fx.

Specifications

Protection class	IP24
Dimensions W × H × D	87 × 87 × 32 (mm)
Colour	flame red, RAL 3000
Weight	52g

Cross-references	Page	Art.Nr.	Name	Type
	171	245042	Manual Call Point/Red/200/Flexi	MCP5A-RP07FF
	170	245040	Manual Call Point/Red/200/Glass	MCP5A-RP07FG
	172	245043	Manual Call Point/Red/200/ISM/Flexi	MCP5A-RP08FF
	170	245041	Manual Call Point/Red/200/ISM/Glass	MCP5A-RP08FG

245012 Surface Mount Box/MCP5A SR3T

The box made of red plastic is used for surface mounting of the Manual Call Points MCP5A-RP07Fx and MCP5A-RP08Fx. The box is designed with 3 auxiliary terminals for simple wiring.

Specifications

Protection class	IP24
Dimensions W × H × D	87 × 87 × 32 (mm)
Colour	flame red, RAL 3000
Weight	60g

Cross-references	Page	Art.Nr.	Name	Type
	171	245042	Manual Call Point/Red/200/Flexi	MCP5A-RP07FF
	170	245040	Manual Call Point/Red/200/Glass	MCP5A-RP07FG
	172	245043	Manual Call Point/Red/200/ISM/Flexi	MCP5A-RP08FF
	170	245041	Manual Call Point/Red/200/ISM/Glass	MCP5A-RP08FG

249213 Glass for MCP Series/10pcs. G21140

The printed glass pane for replacement is inserted for resetting a manual call point MCP5A-RP07FG, MCP5A-RP08FG or 55000-905 after activation.

Cross-references	Page	Art.Nr.	Name	Type
	172	245014	Manual Call Point/Anal./XP95/Apo	55000-905
	170	245040	Manual Call Point/Red/200/Glass	MCP5A-RP07FG
	170	245041	Manual Call Point/Red/200/ISM/Glass	MCP5A-RP08FG

18

Devices for Hazardous Areas

240015 IS Ionisation Smoke Detector/Conv./100/SS 1151EIS

Smoke detector for hazardous areas operating on the ionisation principle in conventional technology, unipolar chamber in a dual system consisting of a sensing and reference chamber for automatic compensation of environmental influences and of flat design, suitable for indoor mounting. The detector 1151EIS must always be connected via a safety barrier approved for the respective detector. Particular attention must be paid to the compliance with country-specific regulations.



Features

- ◆ Output for external remote indicator
- ◆ Mechanical theft protection
- ◆ Insect screen
- ◆ Functionality check by means of test activation with magnet
- ◆ Service plug sockets for testing with the Detector Testing Device MOD400R

Specifications

Ignition protection	intrinsically safe
Ex classification	EEx ia IIB T5
Current consumption at 24V	typ. 40µA (quiescent)
Ambient temperature	0°C to +50°C
Relative humidity	10 to 93% (no condensation)
Radioactive compound	Am241, 0.5µCi (18.5kBq)
Dimensions Ø × H	103 × 42 (mm)
Colour	cream
Weight	104g
Approval	BASEEFA03ATEX0156X VdS G296051

Cross-references	Page	Art.Nr.	Name	Type
	105	246008	Detector Base/Conv./400/100/300/SS B401RM	
	177	228003	Safety Barrier/Conv. ES58-2	

242015 IS Thermal ROR Detector/Conv./400/SS 5451EIS

Heat detector for hazardous areas operating on the rate-of-rise heat detection principle, in conventional technology, combined maximum/rate-of-rise detector assigned to class 1 (maximum room height 7.5 m), suitable for indoor mounting. The detector 5451EIS must always be connected via a safety barrier approved for the respective detector. Particular attention must be paid to the compliance with country-specific regulations.



Features

- ◆ Output for external remote indicator
- ◆ Mechanical theft protection
- ◆ Functionality check (test activation) with magnet possible

Specifications

Ignition protection	intrinsically safe
Ex classification	EEx ia IIB T5
Current consumption	typ. 100µA (quiescent)
Alarm temperature	60°C (maximum-heat component)
Ambient temperature	-10°C to +43°C (continuous operation)
Relative humidity	10 to 93% (no condensation)
Dimensions Ø × H	104 × 54 (mm)

Colour	cream
Weight	80g
Approval	BASEEFA03ATEX0155X VdS G296050

Cross-references	Page	Art.Nr.	Name	Type
	105	246008	Detector Base/Conv./400/100/300/SS B401RM	
	177	228003	Safety Barrier/Conv. ES58-2	

241090 IS Optical Smoke Detector/Conv. SLR-E-IS

Smoke detector operating on the light scatter principle in conventional technology, for hazardous areas and of flat design, suitable for indoor mounting. The detector SLR-E-IS must always be connected via a safety barrier approved for the respective detector. Particular attention must be paid to the compliance with country-specific regulations.



Features

- ◆ Output for external remote indicator
- ◆ Connection to a System Sensor/200 loop via auxiliary modules possible
- ◆ Insect screen

Specifications

Ignition protection	intrinsically safe
Ex classification	EEx ia IIC T5
Current consumption at 24V	typ. 50µA (quiescent)
Ambient temperature	-10°C to +55°C
Relative humidity	10 to 95% (no condensation)
Dimensions Ø × H (incl. base)	100 × 46 (mm)
Colour	cream
Weight	115g
Approval	BAS01ATEX1281 LPCB 164a

Cross-references	Page	Art.Nr.	Name	Type
	176	246090	IS Detector Base/Conv. YBN-R/4IS	
	177	228003	Safety Barrier/Conv. ES58-2	

240023 IS Ionisation Smoke Detector/Conv./60/Apo GIEX-55000-212

Smoke detector for hazardous areas operating on the ionisation principle in conventional technology, consisting of a sensing and reference chamber (dual chamber principle) for automatic compensation of environmental influences and of extra flat design, suitable for indoor mounting. The detector is used with the IS Detector Base/Conv./60/Apo and must always be connected via a safety barrier, approved for the respective detector. Particular attention must be paid to the compliance with country-specific regulations.



Features

- ◆ Sealed electronics prevents false alarms caused by the environment
- ◆ Output for external remote indicator
- ◆ Mechanical theft protection
- ◆ Insect screen
- ◆ Checking with Testset/Conv./S60/Apo TS-53832-020

Specifications

Ignition protection	intrinsically safe
Ex classification	EEx ia II T5
Operating voltage	supplied through detector line voltage
Current consumption at 24V	typ. 45µA (quiescent)

Ambient temperature	0°C to +60°C
Relative humidity	0 to 95% (no condensation)
Radioactive compound	Am241, 0.9µCi (33.3kBq)
Dimensions Ø × H	100 × 42 (mm)
Colour	white
Weight	102g
Approval	EECS ATEX 0073 LPCB 010b

Cross-references	Page	Art.Nr.	Name	Type
	176	246023	IS Detector Base/Conv./60/Apo GSEX-45681-207	
	177	228003	Safety Barrier/Conv. ES58-2	

246090 IS Detector Base/Conv. YBN-R/4IS

Detector base for hazardous areas for an intrinsically safe smoke detector Series SLR, suitable for indoor surface mounting.



Features

- ◆ No electronics contained
- ◆ Multi-useable terminals with secure screw fitting

Specifications

Ambient temperature	-10°C to +55°C (no condensation or icing)
Relative humidity	10 to 95% (no condensation)
Dimensions Ø × H	100 × 15 (mm)
Colour	white
Weight	45g

Cross-references	Page	Art.Nr.	Name	Type
	175	241090	IS Optical Smoke Detector/Conv. SLR-E-IS	
	71	251001	Remote Indicator PA58-1	

246023 IS Detector Base/Conv./60/Apo GSEX-45681-207

Detector base used in hazardous areas for an intrinsically safe Series 60 automatic smoke detector, suitable for indoor surface mounting.



Features

- ◆ No electronics contained
- ◆ Multi-useable terminals with secure screw fitting
- ◆ Terminal for external remote indicator
- ◆ Mechanical theft protection

Specifications

Ambient temperature	-20°C to +60°C (no condensation or icing)
Relative humidity	10 to 95% (no condensation)
Dimensions Ø × H	100 × 15 (mm)
Colour	white
Weight	50g

Cross-references	Page	Art.Nr.	Name	Type
	175	240023	IS Ionisation Smoke Detector/Conv./60/Apo GIEX-55000-212	
	71	251001	Remote Indicator PA58-1	

228003 Safety Barrier/Conv. ES58-2

Safety barrier with galvanic separation used for the build-up of an intrinsically safe circuit for the connection of fire detectors in hazardous areas. Due to the galvanic separation, the earth-fault surveillance of the fire detection control panel can remain active. The relevant regulations for installations in hazardous areas must be observed.

Features

- ◆ Connection of automatic detectors
- ◆ Limitation of the possible short circuit current
- ◆ Limitation of the idle voltage
- ◆ Limitation of the energy stored in the intrinsically safe circuit
- ◆ Plastic surface mount case

Specifications

Ignition protection	intrinsically safe
Ex classification	EEx ia IIC
Operating voltage	supplied through detector line voltage
Quiescent current	approx. 5mA
Ambient temperature	-10°C to +60°C
Dimensions W × H × D	120 × 160 × 90 (mm)
Colour	light grey, similar to RAL 7035
Weight	650g
Approval	BASEEFA98ATEX7343

Cross-references	Page	Art.Nr.	Name	Type
	174	240015	IS Ionisation Smoke Detector/Conv./100/SS	1151EIS
	175	240023	IS Ionisation Smoke Detector/Conv./60/Apo	GIEX-55000-212
	175	241090	IS Optical Smoke Detector/Conv.	SLR-E-IS
	174	242015	IS Thermal ROR Detector/Conv./400/SS	5451EIS

240025 IS Ionisation Smoke Detector/Anal./XP95/Apo AIEX-55000-540

Addressable smoke detector for hazardous areas operating on the ionisation principle for application on the ADM loop using Apollo/Discovery protocol, consisting of sensing and reference chamber (dual chamber principle) for automatic compensation of environmental influences and of extra flat design, suitable for indoor mounting.



The detector must always be connected via a Safety Barrier/Anal./XP95/Apo approved for the respective detector and a Protocol Interface/Anal./XP95/Apo. Particular attention must be paid to the compliance with country-specific regulations.

Features

- ◆ Permanent evaluation of environmental conditions
- ◆ Continuous transmission of the current measured value to the fire detection control panel
- ◆ Constant sensitivity
- ◆ Address card in the detector base for setting the physical address from 01 to 126
- ◆ Sealed electronics prevents false alarms caused by the environment
- ◆ Mechanical theft protection
- ◆ Insect screen

Specifications

Operating voltage	supplied through loop voltage
Ex classification	EEx ia IIC T5
Current consumption	typ. 280µA (quiescent)
Ambient temperature	-20°C to +40°C (no condensation or icing)
Relative humidity	0 to 95% (no condensation)
Radioactive compound	Am241, 0.9µCi (33.3kBq)
Dimensions Ø × H	100 × 42 (mm)
Colour	white
Weight	105g
Approval	EECS ATEX 0073

LPCB 010q

Cross-references	Page	Art.Nr.	Name	Type
	26	214034	BCnet Sectional Control Panel/Extension BCE216-3LG	
	32	214234	Fire Detection Control Panel Module/LG BCM216-3ELG	
	179	246027	IS Detector Base/Anal./Apo ASEX-45681-215	
	35	214021	Loop Interface LIF64-1	
	180	228005	Protocol Interface/Anal./XP95/Apo API-55000-855	
	180	228004	Safety Barrier/Anal./XP95/Apo AES-29600-098	

241024

IS Optical Smoke Detector/Anal./XP95/Apo AOEX-55000-640

Addressable smoke detector for hazardous areas operating on the light scatter principle for application on the ADM loop using Apollo/Discovery protocol, with an optical sensing chamber and of extra flat design, suitable for indoor mounting. The detector must always be connected via a Safety Barrier/Anal./XP95/Apo approved for the respective detector and a Protocol Interface/Anal./XP95/Apo. Particular attention must be paid to the compliance with country-specific regulations.



Intelligent evaluation algorithms compensate for the impact of contamination of the optical sensing system. Thereby, the response sensitivity of the detector is kept constant for a long time, thus constituting another effective measure for preventing false alarms.

Features

- ◆ Permanent evaluation of environmental conditions
- ◆ Continuous transmission of the current measured value to the fire detection control panel
- ◆ Constant sensitivity
- ◆ Address card in the detector base for setting the physical address from 01 to 126
- ◆ Sealed electronics prevents false alarms caused by the environment
- ◆ Mechanical theft protection
- ◆ Insect screen

Specifications

Operating voltage	supplied through loop voltage
Ex classification	EEx ia IIC T5
Current consumption	typ. 340µA (quiescent)
Ambient temperature	-20°C to +40°C (no condensation or icing)
Relative humidity	0 to 95% (no condensation)
Dimensions Ø × H	100 × 42 (mm)
Colour	white
Weight	100g
Approval	EECS ATEX 0073 LPCB 010q

Cross-references	Page	Art.Nr.	Name	Type
	26	214034	BCnet Sectional Control Panel/Extension BCE216-3LG	
	32	214234	Fire Detection Control Panel Module/LG BCM216-3ELG	
	179	246027	IS Detector Base/Anal./Apo ASEX-45681-215	
	35	214021	Loop Interface LIF64-1	
	180	228005	Protocol Interface/Anal./XP95/Apo API-55000-855	
	180	228004	Safety Barrier/Anal./XP95/Apo AES-29600-098	

242036

IS Thermal Detector/Anal./XP95/Apo AWEX-55000-440

Addressable heat detector for hazardous areas operating on the heat detection principle for application on the ADM loop using Apollo/Discovery protocol, in extra flat design, suitable for indoor mounting. The detector is assigned to class 2 (maximum room height 6m). Which



principle is used for the evaluation of the measured values (maximum or rate-of-rise heat detection) is decided in the fire detection control panel by means of appropriate programming.

Features

- ◆ Permanent evaluation of environmental conditions
- ◆ Continuous transmission of the current measured value to the fire detection control panel
- ◆ Address card in the detector base for setting the physical address from 01 to 126
- ◆ Sealed electronics prevents false alarms caused by the environment
- ◆ Output for external remote indicator
- ◆ Mechanical theft protection

Specifications

Operating voltage	supplied through loop voltage
Ex classification	EEx ia IIC T5
Current consumption	typ. 300µA (quiescent)
Ambient temperature	-20°C to +40°C (class T5) -20°C to +60°C (class T4) (no condensation or icing)
Relative humidity	0 to 95% (no condensation)
Dimensions Ø × H	100 × 42 (mm)
Colour	white
Weight	100g
Approval	EECS ATEX 0073 LPCB 010p

Cross-references	Page	Art.Nr.	Name	Type
	26	214034	BCnet Sectional Control Panel/Extension BCE216-3LG	
	32	214234	Fire Detection Control Panel Module/LG BCM216-3ELG	
	179	246027	IS Detector Base/Anal./Apo ASEX-45681-215	
	35	214021	Loop Interface LIF64-1	
	180	228005	Protocol Interface/Anal./XP95/Apo API-55000-855	
	180	228004	Safety Barrier/Anal./XP95/Apo AES-29600-098	

246027

IS Detector Base/Anal./Apo ASEX-45681-215

Detector base used in hazardous areas for a Series XP95 intrinsically safe analogue smoke detector, suitable for indoor surface mounting.



Features

- ◆ Connection to the ADM loop using Apollo/Discovery protocol
- ◆ Easy detector addressing through address card in mounting base
- ◆ No electronics contained
- ◆ Multi-useable terminals with secure screw fitting
- ◆ Mechanical theft protection

Specifications

Ambient temperature	-20°C to +60°C (no condensation or icing)
Relative humidity	10 to 95% (no condensation)
Dimensions Ø × H	100 × 15 (mm)
Colour	white
Weight	50g

Cross-references	Page	Art.Nr.	Name	Type
	153	246030	Backplate/Apo SZPL-45681-233	
	153	246029	Conduit Box/Apo SZA-45681-204	
	177	240025	IS Ionisation Smoke Detector/Anal./XP95/Apo ALEX-55000-540	
	178	241024	IS Optical Smoke Detector/Anal./XP95/Apo AOEX-55000-640	
	178	242036	IS Thermal Detector/Anal./XP95/Apo AWEX-55000-440	

228004 Safety Barrier/Anal./XP95/Apo AES-29600-098

Safety barrier with galvanic separation used for the build-up of an intrinsically safe circuit for the connection of analogue fire detectors in hazardous areas to ADM loops using Apollo/Discovery protocol. Due to the galvanic separation, the earth-fault surveillance of the fire detection control panel can remain active. The relevant regulations for installations in hazardous areas must be observed.

The number of detectors, that can be connected to the safety barrier, depends on the hardware version, that is marked in the case:

Part No. 71997 max. 1 detector can be connected
 Part No. 72157 or 107496: max. 5 detectors can be connected

Features

- ◆ Connection of remote indicators to the smoke detectors possible
- ◆ Limitation of the possible short circuit current
- ◆ Limitation of the idle voltage
- ◆ Limitation of the energy stored in the intrinsically safe circuit
- ◆ DIN rail mounting

Specifications

Ignition protection intrinsically safe
 Ex classification EEx ia IIC T5
 Operating voltage supplied through loop voltage
 Ambient temperature -10°C to +60°C
 Approval EECS ATEX 0073

Cross-references	Page	Art.Nr.	Name	Type
	177	240025	IS Ionisation Smoke Detector/Anal./XP95/Apo AIEX-55000-540	
	178	241024	IS Optical Smoke Detector/Anal./XP95/Apo AOEX-55000-640	
	178	242036	IS Thermal Detector/Anal./XP95/Apo AWEX-55000-440	
	180	228005	Protocol Interface/Anal./XP95/Apo API-55000-855	

228005 Protocol Interface/Anal./XP95/Apo API-55000-855

The protocol interface is always used together with a Safety Barrier/Anal./XP95/Apo and allows for the bi-directional data exchange of analogue fire detectors in hazardous areas on the ADM loop using Apollo/Discovery protocol. The number of detectors, that can be connected to the protocol interface, is limited by the safety barrier.



The protocol interface is suitable for snap-on to a 35mm DIN rail.

Specifications

Ignition protection intrinsically safe
 Ex classification EEx ia IIC T5
 Operating voltage supplied through loop voltage
 Current consumption at 24V 1mA
 Ambient temperature -10°C to +60°C
 Relative humidity 10 - 95%
 Dimensions L × W × H 93 × 20 × 110 (mm)
 Colour green
 Weight 100g
 Approval EECS ATEX 0073

Cross-references	Page	Art.Nr.	Name	Type
	177	240025	IS Ionisation Smoke Detector/Anal./XP95/Apo AIEX-55000-540	
	178	241024	IS Optical Smoke Detector/Anal./XP95/Apo AOEX-55000-640	
	178	242036	IS Thermal Detector/Anal./XP95/Apo AWEX-55000-440	
	180	228004	Safety Barrier/Anal./XP95/Apo AES-29600-098	

241025 IS Optical Smoke Detector/Anal./200/SS 2251EIS

Addressable smoke detector operating on the light scatter principle for application on the ADM loop using System Sensor/200 protocol, with an optical sensing chamber and of flat design, suitable for mounting in hazardous areas. The smoke detector can be mounted in a detector base B501. The detector must always be connected via a Safety Barrier/Anal./200/SS approved for the respective detector and a Protocol Interface/Anal./200/SS. Particular attention must be paid to the compliance with country-specific regulations.



Intelligent evaluation algorithms compensate for the impact of contamination of the optical sensing system. Thereby, the response sensitivity of the detector is kept constant for a long time, thus constituting another effective measure for preventing false alarms.

Features

- ◆ Constant sensitivity
- ◆ 2 decadic rotary switches for setting the physical address from 01 to 99
- ◆ Mechanical theft protection
- ◆ Insect screen
- ◆ Functionality check by means of test activation with magnet

Specifications

Operating voltage	supplied through loop voltage
Ignition protection	intrinsically safe
Ex classification	EEx ia IIB T5
Current consumption	330µA at 24V
Ambient temperature	-25°C to +70°C
Relative humidity	5 to 95% (no condensation)
Dimensions Ø × H	103 × 43 (mm)
Colour	cream
Weight	110g
Approval	BASEEFA03ATEX0157X LPCB 199m

Cross-references	Page	Art.Nr.	Name	Type
	26	214034	BCnet Sectional Control Panel/Extension BCE216-3LG	
	109	246002	Detector Base/Anal./500/200/SS B501	
	32	214234	Fire Detection Control Panel Module/LG BCM216-3ELG	
	35	214021	Loop Interface LIF64-1	
	182	228007	Protocol Interface/Anal./200/SS IST200	
	181	228006	Safety Barrier/Anal./200/SS Y72221	

228006 Safety Barrier/Anal./200/SS Y72221

Zener barrier with galvanic separation used for the build-up of an intrinsically safe circuit for the connection of analogue fire detectors in hazardous areas to ADM loops using System Sensor/200 protocol. The relevant regulations for installations in hazardous areas must be observed.

Features

- ◆ Connection of up to 15 automatic detectors of type 2251EIS
- ◆ Limitation of the possible short circuit current
- ◆ Limitation of the idle voltage
- ◆ Limitation of the energy stored in the intrinsically safe circuit
- ◆ DIN rail mounting

Specifications

Ignition protection	intrinsically safe
Ex classification	EEx ia IIC T5
Operating voltage	supplied through detector line voltage
Ambient temperature	-20°C to +60°C
Dimensions W × H × D	20 × 110 × 107.5 (mm)

Installation	35mm DIN rail
Colour	green
Weight	100g
Approval	BAS00ATEX7087

Cross-references	Page	Art.Nr.	Name	Type
	181	241025	IS Optical Smoke Detector/Anal./200/SS 2251EIS	
	182	228007	Protocol Interface/Anal./200/SS IST200	

228007 Protocol Interface/Anal./200/SS IST200

The protocol interface is always used together with the Safety Barrier/Anal./200/SS and allows for the bi-directional data exchange of analogue fire detectors in hazardous areas on the ADM loop using System Sensor/200 protocol.



Features

- ◆ Connection of up to 15 automatic detectors of type 2251EIS
- ◆ Designed to be integrated into the surface mounting box SMB500

Specifications

Ignition protection	intrinsically safe
Operating voltage	supplied through loop voltage
Ambient temperature	0°C to +60°C
Relative humidity	5 to 95% (no condensation)
Dimensions W × H × D	70 × 70 × 32 (mm)
Weight	155g

Cross-references	Page	Art.Nr.	Name	Type
	181	241025	IS Optical Smoke Detector/Anal./200/SS 2251EIS	
	181	228006	Safety Barrier/Anal./200/SS Y72221	
	118	249004	Surface Mounting Box for M500/SS SMB500	

245680 IS Manual Call Point/Red/Conv. DC21

Manual call point in an elegant red plastic housing with door and standardised glass plate, replaceable function marking "FEUERWEHR", for application in hazardous areas in conventional technology, providing a changeover contact, optionally with 2 sealed resistors (alarm and end-of-line resistor). The desired resistance value must be specified when ordering.



The detector can be connected to an ADM loop by using a conventional zone module. A safety barrier is not required therefor.

Features

- ◆ Robust dust-proof and water-proof plastic housing with a door aperture angle of more than 160°
- ◆ Low flammability and UV resistant
- ◆ Function marking "FEUERWEHR", replaceable
- ◆ Latching push button
- ◆ replaceable glass plate
- ◆ Plenty of room for cabling

Specifications

Operating voltage	supplied through detector line voltage
Ambient temperature	-20°C to +60°C
Protection class	IP66
Dimensions W × H × D	135 × 145 × 70 (mm)

Colour	flame red, RAL 3000
Weight	800g
Approval	VdS G295026, ATEX 1729
Ex classification	II 2 G EEx dme IIC T6

19 RF Devices

249201 RF-Interface/4Rel FUIF511-27D

Radio-linked interface for the connection of up to 32 automatic or non-automatic radio-linked detectors. The interface provides 2 separate alarm and fault detection relays. Each of these two groups can be assigned up to 16 detectors. The two zones are reported as collective messages to the fire detection control panel either in addressable conventional technology or by means of auxiliary modules via the ADM loop. In addition, an LED for the individual display for each detector is provided by the RF-interface.



Features

- ◆ Up to 32 detectors can be memorised
 - ◆ Radio-linked detectors assigned to 2 zones
 - ◆ integrated power supply unit with optional stand-by battery
 - ◆ Individual detector identification via 32 LEDs
 - ◆ Input for remote reset
 - ◆ High transmission capacity
 - ◆ Programming via built-in buttons
 - ◆ Automatic shift between the two frequency ranges (434MHz and 868MHz)
- ◆ 24 bi-directional data channels
 - ◆ Channels are checked for availability

Specifications

Mains voltage	230VAC +10/-15%, 50Hz
Connection power	12VA
external supply voltage	10 to 30VDC
Current consumption at power failure	
from 12V stand-by battery	max. 110mA (quiescent), 120mA (alarm)
Ambient temperature	0°C to +60°C
Dimensions W × H × D	300 × 390 × 140 (mm)
Colour	white, RAL 9018
Weight (without battery)	8.7kg
Approval	VdS G206015

Cross-references	Page	Art.Nr.	Name	Type
	35	214020	Conventional Detector Interface GIF8-1	
	100	249104	Conventional Zone Module/Anal./200/SS M210E-CZ	
	146	249075	Conventional Zone Module/Anal./XP95/Apo GWM-55000-845	
	187	246040	Detector Base/Conv./RF 215-27D	
	208	222013	Detector Reset Module MQZ1000-1	
	8	210110	Detector Zone Extension MGE8-1	
	7	210122	Fire and Evacuation Panel BC016-2/INT1	
	6	210102	Fire Detection Control Panel BC016-1/INT1	
	1	210205	Fire Detection Control Panel BC06-1/INT1	
	3	210209	Fire Detection Control Panel BC06-2/INT1	
	186	245021	Manual Call Point/Blue/RF HM/152-27D	
	185	245020	Manual Call Point/Red/RF HFM/153-27D	
	185	241029	Optical Smoke Detector/RF 55000-680	
	185	242029	Thermal ROR Detector/RF 55000-480	
	4	210210	Zone Extension Board ZEB2-1	

241029 Optical Smoke Detector/RF 55000-680

Smoke detector operating on the light scatter principle in addressable conventional technology, with an optical sensing chamber, suitable for mounting in radio-linked detector bases.

Features

- ◆ Extremely low quiescent current
- ◆ Sealed electronics prevents false alarms caused by the environment
- ◆ Insect screen
- ◆ Alarm indication on detector

Specifications

Operating voltage	supplied through detector base
Battery life span	approx. 1.5 years (batteries are located in the detector base)
Ambient temperature	0°C to +60°C (no condensation)
Dimensions Ø × H	100 × 42 (mm)
Colour	white
Weight	100g
Approval	VdS G2060017

Cross-references	Page	Art.Nr.	Name	Type
	187	246040	Detector Base/Conv./RF 215-27D	
	184	249201	RF-Interface/4Rel FUIF511-27D	

242029 Thermal ROR Detector/RF 55000-480

Radio-linked heat detector operating on the rate-of-rise heat detection principle, combined maximum/rate-of-rise detector classified as A1R (maximum room height 7.5 m), suitable for mounting in radio-linked detector bases.

Features

- ◆ Extremely low quiescent current
- ◆ Sealed electronics prevents false alarms caused by the environment
- ◆ Alarm indication on detector

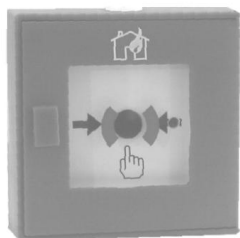
Specifications

Operating voltage	supplied through detector base
Battery life span	approx. 1.5 years (batteries are located in the detector base)
Alarm temperature	57°C (maximum-heat component)
Operating temperature	max. +50°C
Ambient temperature	0°C to +60°C (no condensation)
Dimensions Ø × H	100 × 42 (mm)
Colour	white
Weight	80g
Approval	VdS G206016

Cross-references	Page	Art.Nr.	Name	Type
	187	246040	Detector Base/Conv./RF 215-27D	
	184	249201	RF-Interface/4Rel FUIF511-27D	

245020 Manual Call Point/Red/RF HFM/153-27D

Radio-linked manual call point according to EN 54-11/B in elegant red plastic housing with integrated antenna. The manual call point is delivered with battery.



Features

- ◆ Operating instructions by means of symbols (European standard)
- ◆ Optical activation indication by means of LED
- ◆ Latching push button
- ◆ Easy to replace standardised glass plate
- ◆ Continuous status messages
- ◆ High transmission capacity
- ◆ 2 frequency ranges (434MHz and 868MHz)
- ◆ 24 bi-directional data channels
- ◆ Unique code made up out of several million options
- ◆ Channels are checked for availability
- ◆ Room for 3.6V lithium battery
- ◆ Surveilled battery voltage
- ◆ Approx. 1.5 years life span of lithium battery
- ◆ Sabotage message when door is open

Specifications

Operating voltage	3.6V (Lithium battery)
Battery life span	approx. 1.5 years
Ambient temperature	0°C to +60°C
Dimensions W × H × D	125 × 125 × 37 (mm)
Colour	flame red, RAL 3000
Approval	VdS G204014

Cross-references	Page	Art.Nr.	Name	Type
	191	310021	Lithium Battery 3.6V/2.2Ah	
	184	249201	RF-Interface/4Rel FUIF511-27D	

245021

Manual Call Point/Blue/RF HM/152-27D

Radio-linked manual call point according to EN 54-11/B in elegant blue plastic housing with integrated antenna. The manual call point is delivered with battery.



Features

- ◆ Function marking "HAUSALARM"
- ◆ Optical activation indication by means of LED
- ◆ Latching push button
- ◆ Easy to replace standardised glass plate
- ◆ Continuous status messages
- ◆ High transmission capacity
- ◆ 2 frequency ranges (434MHz and 868MHz)
- ◆ 24 bi-directional data channels
- ◆ Unique code made up out of several million options
- ◆ Channels are checked for availability
- ◆ Room for 3.6V block battery
- ◆ Surveilled battery voltage
- ◆ Approx. 1.5 years battery life span
- ◆ Sabotage message when door is open

Specifications

Operating voltage	3.6V (Lithium battery)
Battery life span	approx. 1.5 years
Ambient temperature	0°C to +60°C
Dimensions W × H × D	125 × 125 × 37 (mm)
Colour	blue
Approval	VdS G105508

Cross-references	Page	Art.Nr.	Name	Type
	191	310021	Lithium Battery 3.6V/2.2Ah	
	184	249201	RF-Interface/4Rel FUIF511-27D	

246040 Detector Base/Conv./RF 215-27D

Two-piece detector base with radio-linked communication module for automatic fire detectors. The base is suitable for indoor mounting. For easy installation and for changing the batteries, the bottom part can be removed and is provided with a bayonet coupling for the detector base. The detector base is delivered with battery.



Features

- ◆ Continuous status messages
- ◆ High transmission capacity
- ◆ 2 frequency ranges (434MHz and 868MHz)
- ◆ 24 bi-directional data channels
- ◆ Unique code made up out of several million options
- ◆ Channels are checked for availability
- ◆ Room for 2 × 9V block battery
- ◆ Surveilled battery voltage
- ◆ Approx. 1.5 years life span of lithium block battery
- ◆ Sabotage message when detector is removed

Specifications

Ambient temperature	0°C to +60°C (no condensation)
Dimensions Ø × H	100 × 50 (mm)
Colour	white
Weight	160g (without batteries)
Approvals	VdS G206016 VdS G206017

Cross-references	Page	Art.Nr.	Name	Type
	191	310020	Lithium Battery 9V/1,2Ah	
	185	241029	Optical Smoke Detector/RF 55000-680	
	184	249201	RF-Interface/4Rel FUIF511-27D	
	185	242029	Thermal ROR Detector/RF 55000-480	

249202 RF Interface/Anal./SS M500RFE-AS

The RF Interface M500RFE-AS constitutes a gateway between radio-linked detectors and a fire detection control panel. Communication with the control panel is established via the ADM loop using System Sensor/200 protocol.



Up to 99 automatic detectors and up to 98 manual call points can be addressed by the RF interface. One module address on the ADM loop is assigned to the gateway. In the teach-in phase, the detector addresses have to be configured either automatically or manually via the operating menu.

Features

- ◆ Operation via keypad and alphanumeric display
- ◆ Multilingual operation menu
- ◆ Automatic teach-in process for configuration of detectors
- ◆ Protection against unauthorised access by 6-digit code
- ◆ Display of signal level of each detector
- ◆ Status display via 3 LED indicators (operation, alarm, fault)
- ◆ Integrated dual-isolator
- ◆ Automatic change-over between the two frequencies (434MHz and 868MHz)
- ◆ 24 bi-directional data channels
- ◆ Channels checked for availability

Specifications

Supply voltage	10 - 30VDC
Current consumption ext. supply	max. 80mA (at 24V)
Current consumption from loop	325µA (quiescent)
Frequencies	434MHz and 868MHz
Radio transmission range	max. 300m (free air)
Ambient temperature	-10°C to +55°C

Relative humidity	10 - 93% (no condensation)
Dimensions W × H × D	210 × 270 × 70 (mm)
Colour	white/black
Weight	930g

Cross-references	Page	Art.Nr.	Name	Type
	26	214034	BCnet Sectional Control Panel/Extension BCE216-3LG	
	32	214234	Fire Detection Control Panel Module/LG BCM216-3ELG	
	35	214021	Loop Interface LIF64-1	
	190	245023	Manual Call Point/Blue/RF M400DKMB-AS	
	189	245022	Manual Call Point/Red/RF M400DKMR-AS	
	189	241036	Optical-Thermal Detector/RF/complete 2100RFT-AS	

249203 RF-Interface/4Rel M400RFE-AS

The radio-linked interface M400RFE-AS serves for the connection of up to 32 automatic or non-automatic radio-linked detectors. The interface provides 2 separate alarm and fault detection relays. Each of these two groups can be assigned up to 16 detectors. The two zones are reported as collective messages to the fire detection control panel either in addressable conventional technology or by means of auxiliary modules via the ADM loop. In addition, an LED for the individual display for each detector is provided by the RF-interface.



Features

- ◆ Up to 32 detectors can be memorised
 - ◆ Radio-linked detectors assigned to 2 zones
 - ◆ integrated power unit, expandable with stand-by battery
 - ◆ Individual detector identification via 32 LEDs
 - ◆ Input for remote reset
- ◆ High transmission capacity
 - ◆ Programming via built-in buttons
 - ◆ Automatic shift between the two frequency ranges (434MHz and 868MHz)
 - ◆ 24 bi-directional data channels
 - ◆ Channels are checked for availability

Specifications

Mains voltage	230VAC +10/-15%, 50Hz
Connection power	12VA
external supply voltage	10 to 30VDC
Current consumption at power failure	
from 12V stand-by battery	max. 110mA (quiescent), 120mA (alarm)
Ambient temperature	0°C to +60°C
Dimensions W × H × D	300 × 390 × 140 (mm)
Colour	white, RAL 9018
Weight (without batteries)	8.7kg
Approval	VdS G204104

Cross-references	Page	Art.Nr.	Name	Type
	35	214020	Conventional Detector Interface GIF8-1	
	100	249104	Conventional Zone Module/Anal./200/SS M210E-CZ	
	146	249075	Conventional Zone Module/Anal./XP95/Apo GWM-55000-845	
	208	222013	Detector Reset Module MQZ1000-1	
	8	210110	Detector Zone Extension MGE8-1	
	7	210122	Fire and Evacuation Panel BC016-2/INT1	
	6	210102	Fire Detection Control Panel BC016-1/INT1	
	1	210205	Fire Detection Control Panel BC06-1/INT1	
	3	210209	Fire Detection Control Panel BC06-2/INT1	
	190	245023	Manual Call Point/Blue/RF M400DKMB-AS	
	189	245022	Manual Call Point/Red/RF M400DKMR-AS	
	189	241036	Optical-Thermal Detector/RF/complete 2100RFT-AS	
	4	210210	Zone Extension Board ZEB2-1	

241036 Optical-Thermal Detector/RF/complete 2100RFT-AS

The radio-linked detector 2100RFT-AS contains an optical sensing chamber on the principle of scattered light and a maximum heat detector with the alarm temperature set at 58°C. The alarm is radio-transmitted to the RF-Interface M500RFE-AS (System Sensor/200 protocol) or M400RFE-AS (in conventional technology).



The radio-linked detector is particularly suitable for applications where cabling is not possible or inefficient. The detector is designed for indoor mounting and is delivered with a mounting base, however, batteries are not provided.

Features

- ◆ Extremely low quiescent current consumption
- ◆ Sealed electronics prevents false alarms caused by environmental influences
- ◆ Insect screen
- ◆ Alarm display on detector
- ◆ Status message at the end of battery lifespan

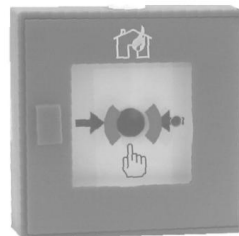
Features

Voltage supply	2 lithium batteries 3V, type CR123
Battery lifespan	approx. 1.5 years
Alarm temperature	58°C
Frequencies	434MHz and 868MHz
Radio transmission range	max. 300m (free air)
Ambient temperature	0°C to +40°C
Relative humidity	10 - 93% (no condensation)
Dimensions Ø × H	140 × 55 (mm)
Colour	white
Weight	187g (without batteries)
Approval	VdS G204105

Cross-references	Page	Art.Nr.	Name	Type
	190	249215	Battery for 2100RFT-AS CR123	
	188	249203	RF-Interface/4Rel M400RFE-AS	
	187	249202	RF Interface/Anal./SS M500RFE-AS	

245022 Manual Call Point/Red/RF M400DKMR-AS

The radio-linked manual call point according to EN 54-11/B is accommodated in a red plastic housing. The antenna is integrated in the detector housing. The alarm is radio-transmitted to the RF-Interface M500RFE-AS (System Sensor/200 protocol) or M400RFE-AS (in conventional technology).



The radio-linked detector is particularly suited for applications, where cabling is not possible or inefficient. Batteries are provided with the detector, which is suited for indoor mounting.

Features

- ◆ Operating instructions by symbols (European Standard)
- ◆ Optical indication of activation via LED
- ◆ Latching push button
- ◆ Standardised glass pane, easy to replace
- ◆ Continuous status messages
- ◆ 24 bi-directional data channels
- ◆ Unique code generated out of several million options
- ◆ Channels are checked for availability
- ◆ Monitored battery voltage
- ◆ Sabotage message when door is open

Specifications

Supply voltage	2 lithium batteries 3.6V, type LS14500
Battery lifespan	approx. 1.5 years

Frequencies	434MHz and 868MHz
Radio transmission range	max. 300m (free air)
Ambient temperature	0°C to +40°C
Relative humidity	10 - 93% (no condensation)
Dimensions W × H × D	125 × 125 × 36 (mm)
Colour	flame red, RAL 3000
Weight	250g (without batteries)
Approval	VdS G204103

Cross-references	Page	Art.Nr.	Name	Type
	191	310021	Lithium Battery 3.6V/2.2Ah	
	188	249203	RF-Interface/4Rel M400RFE-AS	
	187	249202	RF Interface/Anal./SS M500RFE-AS	

245023**Manual Call Point/Blue/RF M400DKMB-AS**

The radio-linked manual call point according to EN 54-11/B is accommodated in a blue plastic housing. The antenna is integrated in the detector housing. The alarm is radio-transmitted to the RF-Interface M500RFE-AS (System Sensor/200 protocol) or M400RFE-AS (in conventional technology).



The radio-linked detector is particularly suited for applications, where cabling is not possible or inefficient. Batteries are provided with the detector, which is suited for indoor mounting.

Features

- ◆ Inscription field 'HAUSALARM'
- ◆ Optical indication of activation via LED indicator
- ◆ Latching push button
- ◆ Standardised glass pane, easy to replace
- ◆ Continuous status messages
- ◆ 24 bi-directional data channels
- ◆ Unique code generated out of several million options
- ◆ Channels are checked for availability
- ◆ Monitored battery voltage
- ◆ Sabotage message when door is open

Specifications

Supply voltage	2 lithium batteries 3.6V, type LS14500
Battery lifespan	approx. 1.5 years
Frequencies	434MHz and 868MHz
Radio transmission range	max. 300m (free air)
Ambient temperature	0°C to +40°C
Relative humidity	10 - 93% (no condensation)
Dimensions W × H × D	125 × 125 × 36 (mm)
Colour	sky blue, RAL 5015
Weight	250g (without batteries)

Cross-references	Page	Art.Nr.	Name	Type
	191	310021	Lithium Battery 3.6V/2.2Ah	
	188	249203	RF-Interface/4Rel M400RFE-AS	
	187	249202	RF Interface/Anal./SS M500RFE-AS	

249215**Battery for 2100RFT-AS CR123**

The 3V-battery is used for supply of the Optical-Thermal Detector 2100RFT-AS.

Features

- ◆ High quality lithium battery
- ◆ Low self-discharge
- ◆ Long lifespan of typ. 1.5 years in an automatic radio-linked detector

- ◆ Shelf life min. 5 years

Cross-references	Page	Art.Nr.	Name	Type
	189	241036	Optical-Thermal Detector/RF/complete 2100RFT-AS	

310020 Lithium Battery 9V/1,2Ah

Spare battery for radio-linked detector base 215-27D. Each detector base requires 2 batteries, both batteries have to be replaced at the same time.



Features

- ◆ High-quality lithium battery
- ◆ Low self-discharge
- ◆ Long life span of typ. 1.5 years when used in radio-linked detector base 215-27D
- ◆ Shelf life min. 5 years

Cross-references	Page	Art.Nr.	Name	Type
	187	246040	Detector Base/Conv./RF 215-27D	

310021 Lithium Battery 3,6V/2,2Ah

Spare battery for radio-linked manual call points.



Features

- ◆ High-quality lithium battery
- ◆ Low self-discharge
- ◆ Long life span of typ. 1.5 years when used in radio-linked manual call point
- ◆ Shelf life min. 5 years

Cross-references	Page	Art.Nr.	Name	Type
	186	245021	Manual Call Point/Blue/RF HM/152-27D	
	190	245023	Manual Call Point/Blue/RF M400DKMB-AS	
	185	245020	Manual Call Point/Red/RF HFM/153-27D	
	189	245022	Manual Call Point/Red/RF M400DKMR-AS	

20 Special Detectors

242010 Thermal Max Detector IP67/Conv. SWM-1KL-57

The maximum heat detector SWM-1KL-57 uses a bimetal element as thermal sensor. If the alarm temperature is reached, the bimetal contact is closed. Addressable conventional technology is used for alarm transmission to the fire detection control panel. The activated condition of the detector is indicated by an LED. The detector can be connected to an ADM loop by using a conventional zone module.



The detector is integrated in an aluminium die-cast housing, that is suitable for application in moist areas (e.g., loading ramps).

Features

- ◆ Individual detector addressing by connecting an optional address module
- ◆ Alarm LED on detector housing
- ◆ Output for external remote indicator
- ◆ Metal PG-screws for water-proof insertion of the connecting cables

Specifications

Operating voltage	supplied through detector line voltage
Alarm current at 24VDC	max. 100mA
Alarm temperature	typ. 57°C
Protection class	IP67
Dimensions L × W × H	110 × 90 × 54 (mm)
Colour	white
Weight	250g

Cross-references	Page	Art.Nr.	Name	Type
	155	249028	Address Module/Conv./Apo NG60-1	
	119	249020	Address Module/Conv. NG58-1	
	35	214020	Conventional Detector Interface GIF8-1	
	100	249104	Conventional Zone Module/Anal./200/SS M210E-CZ	
	146	249075	Conventional Zone Module/Anal./XP95/Apo GWM-55000-845	
	8	210110	Detector Zone Extension MGE8-1	
	7	210122	Fire and Evacuation Panel BC016-2/INT1	
	6	210102	Fire Detection Control Panel BC016-1/INT1	
	1	210205	Fire Detection Control Panel BC06-1/INT1	
	3	210209	Fire Detection Control Panel BC06-2/INT1	
	71	251001	Remote Indicator PA58-1	
	4	210210	Zone Extension Board ZEB2-1	

242012 Thermal Max Detector IP67/Conv. SWM-1KL-80

The maximum heat detector SWM-1KL-80 uses a bimetal element as thermal sensor. If the alarm temperature is reached, the bimetal contact is closed. Addressable conventional technology is used for alarm transmission to the fire detection control panel. The activated condition of the detector is indicated by an LED. The detector can be connected to an ADM loop by using a conventional zone module.



The detector is integrated in an aluminium die-cast housing, that is suitable for application in moist areas (e.g., loading ramps).

Features

- ◆ Individual detector addressing by connecting an optional address module
- ◆ Alarm LED on detector housing
- ◆ Output for external remote indicator

- ♦ Metal PG-screws for waterproof insertion of the connecting cables

Specifications

Operating voltage	supplied through detector line voltage
Alarm current at 24VDC	max. 100mA
Alarm temperature	typ. 80°C
Protection class	IP67
Dimensions L × W × H	110 × 90 × 54 (mm)
Colour	white
Weight	250g

Cross-references	Page	Art.Nr.	Name	Type
	155	249028	Address Module/Conv./Apo NG60-1	
	119	249020	Address Module/Conv. NG58-1	
	35	214020	Conventional Detector Interface GIF8-1	
	100	249104	Conventional Zone Module/Anal./200/SS M210E-CZ	
	146	249075	Conventional Zone Module/Anal./XP95/Apo GWM-55000-845	
	8	210110	Detector Zone Extension MGE8-1	
	7	210122	Fire and Evacuation Panel BC016-2/INT1	
	6	210102	Fire Detection Control Panel BC016-1/INT1	
	1	210205	Fire Detection Control Panel BC06-1/INT1	
	3	210209	Fire Detection Control Panel BC06-2/INT1	
	71	251001	Remote Indicator PA58-1	
	4	210210	Zone Extension Board ZEB2-1	

242013

Thermal Max Detector IP67/Conv. SWM-1KL-100

The maximum heat detector SWM-1KL-100 uses a bimetal element as thermal sensor. If the alarm temperature is reached, the bimetal contact is closed. Addressable conventional technology is used for alarm transmission to the fire detection control panel. The activated condition of the detector is indicated by an LED. The detector can be connected to an ADM loop by using a conventional zone module.



The detector is integrated in an aluminium die-cast housing, that is suitable for application in moist areas (e.g., loading ramps).

Features

- ♦ Individual detector addressing by connecting an optional address module
- ♦ Alarm LED on detector housing
- ♦ Output for external remote indicator
- ♦ Metal PG-screws for waterproof insertion of the connecting cables

Specifications

Operating voltage	supplied through detector line voltage
Alarm current at 24VDC	max. 100mA
Alarm temperature	typ. 100°C
Protection class	IP67
Dimensions L × W × H	110 × 90 × 54 (mm)
Colour	white
Weight	250g

Cross-references	Page	Art.Nr.	Name	Type
	155	249028	Address Module/Conv./Apo NG60-1	
	119	249020	Address Module/Conv. NG58-1	
	35	214020	Conventional Detector Interface GIF8-1	
	100	249104	Conventional Zone Module/Anal./200/SS M210E-CZ	
	146	249075	Conventional Zone Module/Anal./XP95/Apo GWM-55000-845	
	8	210110	Detector Zone Extension MGE8-1	
	7	210122	Fire and Evacuation Panel BC016-2/INT1	
	6	210102	Fire Detection Control Panel BC016-1/INT1	
	1	210205	Fire Detection Control Panel BC06-1/INT1	
	3	210209	Fire Detection Control Panel BC06-2/INT1	
	71	251001	Remote Indicator PA58-1	
	4	210210	Zone Extension Board ZEB2-1	

242014 Thermal Max Detector IP67/Conv. SWM-1KL-140

The maximum heat detector SWM-1KL-140 uses a bimetal element as thermal sensor. If the alarm temperature is reached, the bimetal contact is closed. Addressable conventional technology is used for alarm transmission to the fire detection control panel. The detector can be connected to an ADM loop by using a conventional zone module.



The detector is integrated in an aluminium die-cast housing, that is suitable for application in moist areas (e.g., loading ramps).

Features

- ◆ Individual detector addressing by connecting an optional address module
- ◆ Metal PG-screw for waterproof insertion of the connecting cables

Specifications

Operating voltage	supply through the detector line voltage
Alarm current at 24VDC	max. 100mA
Alarm temperature	140°C
Protection class	IP67
Dimensions L × W × H	110 × 90 × 54 (mm)
Colour	white
Weight	250g

Cross-references	Page	Art.Nr.	Name	Type
	155	249028	Address Module/Conv./Apo NG60-1	
	119	249020	Address Module/Conv. NG58-1	
	35	214020	Conventional Detector Interface GIF8-1	
	100	249104	Conventional Zone Module/Anal./200/SS M210E-CZ	
	146	249075	Conventional Zone Module/Anal./XP95/Apo GWM-55000-845	
	8	210110	Detector Zone Extension MGE8-1	
	7	210122	Fire and Evacuation Panel BC016-2/INT1	
	6	210102	Fire Detection Control Panel BC016-1/INT1	
	1	210205	Fire Detection Control Panel BC06-1/INT1	
	3	210209	Fire Detection Control Panel BC06-2/INT1	
	4	210210	Zone Extension Board ZEB2-1	

243002 Flame Detector UV/Conv. NFD-68-P+SOCKEL

Flame detector operating on the UV principle in addressable conventional technology, suitable for indoor mounting. The detector can also be connected to an ADM loop by using a conventional zone module.

Features

- ◆ Optical indication of activation through high-power LEDs
- ◆ Electronic theft protection
- ◆ Up to 3 detectors per detector line in conventional technology
- ◆ Up to 5 detectors per conventional zone module on the ADM loop

Specifications

Operating voltage	supplied through detector line voltage
Current consumption	120µA (quiescent)
Surveillance angle	100°
Ambient temperature	-10°C to +50°C
Relative humidity	10 to 93% (no condensation)
Dimensions Ø × H	120 × 40 (mm)
Colour	white
Weight	230g

Cross-references	Page	Art.Nr.	Name	Type
	155	249028	Address Module/Conv./Apo NG60-1	
	119	249020	Address Module/Conv. NG58-1	
	35	214020	Conventional Detector Interface GIF8-1	

100	249104	Conventional Zone Module/Anal./200/SS M210E-CZ
146	249075	Conventional Zone Module/Anal./XP95/Apo GWM-55000-845
8	210110	Detector Zone Extension MGE8-1
7	210122	Fire and Evacuation Panel BC016-2/INT1
6	210102	Fire Detection Control Panel BC016-1/INT1
1	210205	Fire Detection Control Panel BC06-1/INT1
3	210209	Fire Detection Control Panel BC06-2/INT1
4	210210	Zone Extension Board ZEB2-1

243005 Flame Detector UV/Conv. UV-03

Flame detector operating on the UV principle in conventional technology. The detector responds to the ultraviolet parts contained in the outer zone of the flames and is therefore very well applicable for the detection of open flames, light arcs on isolators, etc. The detector does not respond, however, to sunlight, incandescent lamps, fluorescent lamps and flying sparks. Application limits occur in the field of UV emitting lamps (halogen, mercury vapour lamps, etc.), dust and contamination of the glass pane on the detector front.



Features

- ◆ Applicable in conventional technology
- ◆ Connection to an ADM loop via a conventional zone module possible

Specifications

Operating voltage	supplied through detector line voltage
Current consumption	50µA (quiescent)
Surveillance angle	approx. 110°
Spectral sensitivity	185 to 235nm
Ambient temperature	-20°C to +60°C
Dimensions L × W × H	98 × 64 × 35 (mm)
Protection class	IP65
Weight	110g

Cross-references	Page	Art.Nr.	Name	Type
	155	249028	Address Module/Conv./Apo NG60-1	
	119	249020	Address Module/Conv. NG58-1	
	35	214020	Conventional Detector Interface GIF8-1	
	100	249104	Conventional Zone Module/Anal./200/SS M210E-CZ	
	146	249075	Conventional Zone Module/Anal./XP95/Apo GWM-55000-845	
	8	210110	Detector Zone Extension MGE8-1	
	7	210122	Fire and Evacuation Panel BC016-2/INT1	
	6	210102	Fire Detection Control Panel BC016-1/INT1	
	1	210205	Fire Detection Control Panel BC06-1/INT1	
	3	210209	Fire Detection Control Panel BC06-2/INT1	
	4	210210	Zone Extension Board ZEB2-1	

243004 Flame Detector IR/Conv. IR-10

Flame detector operating on the IR principle in conventional technology. The detector responds to the flickering infrared radiation of flames and is, therefore, very well applicable for the detection of open flames, even with smoke formation. The detector does not respond to



sunlight, incandescent lamps, fluorescent lamps and light arcs of electric welding (at larger distances). The response delay can be adjusted in 3 levels between 3 and 12 seconds. Application limits occur in the field of IR emitting, rapidly changing light sources, dust and contamination of the IR filter glass on the detector.

Features

- ◆ Applicable in conventional technology
- ◆ Connection to an ADM loop via a conventional zone module possible

Specifications

Operating voltage	supplied through detector line voltage
Current consumption	350 μ A (quiescent)
Surveillance angle	approx. 110°
Spectral sensitivity	4,4 μ m
Ambient temperature	-20°C to +60°C
Dimensions L x W x D	98 x 64 x 35 (mm)
Protection class	IP65
Weight	110g

Cross-references	Page	Art.Nr.	Name	Type
	155	249028	Address Module/Conv./Apo NG60-1	
	119	249020	Address Module/Conv. NG58-1	
	35	214020	Conventional Detector Interface GIF8-1	
	100	249104	Conventional Zone Module/Anal./200/SS M210E-CZ	
	146	249075	Conventional Zone Module/Anal./XP95/Apo GWM-55000-845	
	8	210110	Detector Zone Extension MGE8-1	
	7	210122	Fire and Evacuation Panel BC016-2/INT1	
	6	210102	Fire Detection Control Panel BC016-1/INT1	
	1	210205	Fire Detection Control Panel BC06-1/INT1	
	3	210209	Fire Detection Control Panel BC06-2/INT1	
	4	210210	Zone Extension Board ZEB2-1	

244022 Beam Smoke Detector/Conv./SS 6500R

Beam smoke detector for the surveillance of open areas with a range of 5m to 70m (with accessories up to 100m), consisting of a combined transmitter-receiver unit integrated into a plastic housing, for application in conventional technology, designed for indoor mounting. A pulsed infrared beam emitted from the transmitter-receiver unit is reflected by a reflector (mirror). Alarm evaluation is achieved by detection of a reduced intensity of the light beam.



Intelligent evaluation algorithms in the detector compensate for the impact of contamination of the optical sensing system. Thereby, the response sensitivity of the detector is kept constant for a long time, thus constituting an effective measure for preventing false alarms.

The response sensitivity of the detector can be set to 6 different levels. Four levels show a fixed alarm threshold, 2 other levels provide an adaption of the detector to changing ambient conditions by means of a variable alarm threshold.

The detector is delivered with a reflector, which can be used for ranges from 5 to 70m. A three-part accessory is available to extend the range of the detector from 70 to 100m.

Features

- ◆ Detection of clear and dark smoke
- ◆ Sender and receiver integrated in a single housing
- ◆ Sealed detector housing
- ◆ Receiver LED display for alarm and fault as well as display for preset values and commissioning support
- ◆ Adjustment screws for an easy alignment of the detector

- ◆ Test filter for optimal commissioning included in delivery

Specifications

Operating voltage	10.2 to 32VDC
Current consumption at 24V	17mA (quiescent), 38.5mA (active)
Ambient temperature	-30°C to +55°C
Relative humidity	max. 95% (no condensation)
Dimensions W × H × D	190 × 254 × 84 (mm), Smoke Detector 6500
Dimensions W × H × D	200 × 230 × 10 (mm), Reflector (5 to 70m)
Protection class	IP54
Colour	cream
Weight	1.8kg
Approval	VdS G205034 (EN 54-12)

Cross-references	Page	Art.Nr.	Name	Type
	155	249028	Address Module/Conv./Apo NG60-1	
	119	249020	Address Module/Conv. NG58-1	
	35	214020	Conventional Detector Interface GIF8-1	
	100	249104	Conventional Zone Module/Anal./200/SS M210E-CZ	
	208	222013	Detector Reset Module MQZ1000-1	
	8	210110	Detector Zone Extension MGE8-1	
	7	210122	Fire and Evacuation Panel BC016-2/INT1	
	6	210102	Fire Detection Control Panel BC016-1/INT1	
	1	210205	Fire Detection Control Panel BC06-1/INT1	
	3	210209	Fire Detection Control Panel BC06-2/INT1	
	143	249072	Monitor Module/Anal./XP95/Apo ÜMS-55000-841	
	200	244025	Multi-Mount Kit/6500 BEAMMMK	
	200	244024	Reflector/6500/75-100M BEAMLRK	
	201	244026	Surface Mount Kit/6500 BEAMSMK	
	4	210210	Zone Extension Board ZEB2-1	

244023

Beam Smoke Detector/Test/Conv./SS 6500RS

Beam smoke detector for the surveillance of open areas with a range of 5m to 70m (with accessories up to 100m), consisting of a combined transmitter-receiver unit integrated into a plastic housing, for application in conventional technology, designed for indoor mounting. A pulsed infrared beam emitted from the transmitter-receiver unit is reflected by a reflector (mirror).



For easy functional testing, the detector can be remotely activated during maintenance by the fire detection control panel. This test simulates a light obscuration by means of an integrated test filter.

Alarm evaluation is achieved by detection of a reduced intensity of the light beam. Intelligent evaluation algorithms in the detector compensate for the impact of contamination of the optical sensing system. Thereby, the response sensitivity of the detector is kept constant for a long time, thus constituting an effective measure for preventing false alarms.

The response sensitivity of the detector can be set to 6 different levels. Four levels show a fixed alarm threshold, 2 other levels provide an adaption of the detector to changing ambient conditions by means of a variable alarm threshold.

The detector is delivered with a reflector, which can be used for ranges from 5 to 70m. A three-part accessory is available to extend the range of the detector from 70 to 100m.

Features

- ◆ Detection of clear and dark smoke
- ◆ Sender and receiver integrated in a single housing
- ◆ Sealed detector housing
- ◆ Receiver LED display for alarm and fault as well as display for preset values and commissioning support
- ◆ Adjustment screws for an easy alignment of the detector
- ◆ Test filter for optimal commissioning included in delivery

Specifications

Operating voltage	15 to 32VDC
Current consumption at 24V	17mA (quiescent), 38.5mA (active)
Current consumption test filter	max. 500mA
Ambient temperature	-30°C to +55°C
Relative humidity	max. 95% (no condensation)
Dimensions W × H × D	190 × 254 × 84 (mm), Smoke Detector 6500
Dimensions W × H × D	200 × 230 × 10 (mm), Reflector (5 to 70m)
Protection class	IP54
Colour	cream
Weight	1.8kg
Approval	VdS G205034 (EN 54-12)

Cross-references	Page	Art.Nr.	Name	Type
	155	249028	Address Module/Conv./Apo NG60-1	
	119	249020	Address Module/Conv. NG58-1	
	35	214020	Conventional Detector Interface GIF8-1	
	100	249104	Conventional Zone Module/Anal./200/SS M210E-CZ	
	146	249075	Conventional Zone Module/Anal./XP95/Apo GWM-55000-845	
	8	210110	Detector Zone Extension MGE8-1	
	7	210122	Fire and Evacuation Panel BC016-2/INT1	
	6	210102	Fire Detection Control Panel BC016-1/INT1	
	1	210205	Fire Detection Control Panel BC06-1/INT1	
	3	210209	Fire Detection Control Panel BC06-2/INT1	
	143	249072	Monitor Module/Anal./XP95/Apo ÜMS-55000-841	
	200	244025	Multi-Mount Kit/6500 BEAMMMK	
	200	244024	Reflector/6500/75-100M BEAMLRK	
	201	244026	Surface Mount Kit/6500 BEAMSMK	
	4	210210	Zone Extension Board ZEB2-1	

244020 Beam Smoke Detector/Anal./SS 6500

Beam smoke detector for the surveillance of open areas with a range of 5m to 70m (with accessories up to 100m), consisting of a combined transmitter-receiver unit integrated into a plastic housing, for application on the ADM loop using System Sensor/200 protocol, designed for indoor mounting. A pulsed infrared beam emitted from the transmitter-receiver unit is reflected by a reflector (mirror). Alarm evaluation is achieved by detection of a reduced intensity of the light beam. The Beam Smoke Detector 6500 can be connected directly to the ADM loop with System Sensor/200 protocol without external power supply.



Intelligent evaluation algorithms in the detector compensate for the impact of contamination of the optical sensing system. Thereby, the response sensitivity of the detector is kept constant for a long time, thus constituting an effective measure for preventing false alarms.

The response sensitivity of the detector can be set to 6 different levels. Four levels show a fixed alarm threshold, 2 other levels provide an adaption of the detector to changing ambient conditions by means of a variable alarm threshold.

The detector is delivered with a reflector, which can be used for ranges from 5 to 70m. A three-part accessory is available to extend the range of the detector from 70 to 100m.

Features

- ◆ Detection of clear and dark smoke
- ◆ Sender and receiver integrated in a single housing
- ◆ Sealed detector housing
- ◆ Direct connection to the ADM loop with System Sensor/200 protocol without external power supply
- ◆ Integrated dual-isolator, activation by removal of two jumpers
- ◆ Receiver LED display for alarm and fault as well as display for preset values and commissioning support
- ◆ Adjustment screws for an easy alignment of the detector
- ◆ Test filter for optimal commissioning included in delivery

Specifications

Operating voltage	supplied through loop voltage
Current consumption	2mA (quiescent), 8mA (active)
Ambient temperature	-30°C to +55°C
Relative humidity	max. 95% (no condensation)
Dimensions W × H × D	190 × 254 × 84 (mm), Smoke Detector 6500
Dimensions W × H × D	200 × 230 × 10 (mm), Reflector (5 to 70m)
Protection class	IP54
Colour	cream
Weight	1.8kg
Approval	VdS G205033 (EN 54-12)

Cross-references	Page	Art.Nr.	Name	Type
	26	214034	BCnet Sectional Control Panel/Extension BCE216-3LG	
	32	214234	Fire Detection Control Panel Module/LG BCM216-3ELG	
	35	214021	Loop Interface LIF64-1	
	200	244025	Multi-Mount Kit/6500 BEAMMMK	
	200	244024	Reflector/6500/75-100M BEAMLRK	
	201	244026	Surface Mount Kit/6500 BEAMSMK	

244021**Beam Smoke Detector/Test/Anal./SS 6500S**

Beam smoke detector for the surveillance of open areas with a range of 5m to 70m (with accessories up to 100m), consisting of a combined transmitter-receiver unit integrated into a plastic housing, for application on the ADM loop using System Sensor/200 protocol, designed for indoor mounting. A pulsed infrared beam emitted from the transmitter-receiver unit is reflected by a reflector (mirror).



For easy functional testing, the detector can be remotely activated during maintenance by the fire detection control panel. This test simulates a light obscuration by means of an integrated test filter. The test unit requires its own external voltage supply, it cannot be supplied by the loop.

Alarm evaluation is achieved by detection of a reduced intensity of the light beam. The Beam Smoke Detector 6500S can be connected directly to the ADM loop with System Sensor/200 protocol without external power supply – except for powering the test unit.

Intelligent evaluation algorithms in the detector compensate for the impact of contamination of the optical sensing system. Thereby, the response sensitivity of the detector is kept constant for a long time, thus constituting an effective measure for preventing false alarms.

The response sensitivity of the detector can be set to 6 different levels. Four levels show a fixed alarm threshold, 2 other levels provide an adaption of the detector to changing ambient conditions by means of a variable alarm threshold.

The detector is delivered with a reflector, which can be used for ranges from 5 to 70m. A three-part accessory is available to extend the range of the detector from 70 to 100m.

Features

- ◆ Detection of clear and dark smoke
- ◆ Sender and receiver integrated in a single housing
- ◆ Sealed detector housing
- ◆ Direct connection to the ADM loop with System Sensor/200 protocol without external power supply – except for powering the test unit
- ◆ Integrated dual-isolator, activation by removal of two jumpers
- ◆ Receiver LED display for alarm and fault as well as display for preset values and commissioning support
- ◆ Adjustment screws for an easy alignment of the detector
- ◆ Test filter for optimal commissioning included in delivery

Specifications

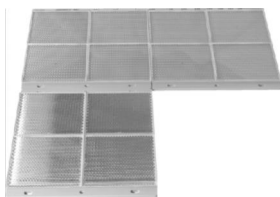
Operating voltage	supplied through loop voltage
Current consumption	2mA (quiescent), 8mA (active)

Operating voltage test filter	15 to 32VDC
Current consumption test filter	max. 500mA
Ambient temperature	-30°C to +55°C
Relative humidity	max. 95% (no condensation)
Dimensions W × H × D	190 × 254 × 84 (mm), Smoke Detector 6500
Dimensions W × H × D	200 × 230 × 10 (mm), Reflector (5 to 70m)
Protection class	IP54
Colour	cream
Weight	1.8kg
Approval	VdS G205033 (EN 54-12)

Cross-references	Page	Art.Nr.	Name	Type
	26	214034	BCnet Sectional Control Panel/Extension BCE216-3LG	
	32	214234	Fire Detection Control Panel Module/LG BCM216-3ELG	
	35	214021	Loop Interface LIF64-1	
	200	244025	Multi-Mount Kit/6500 BEAMMMK	
	200	244024	Reflector/6500/75-100M BEAMLRK	
	201	244026	Surface Mount Kit/6500 BEAMSMK	

244024 Reflector/6500/75-100M BEAMLRK

Reflector (mirror) for joint application with the Beam Smoke Detector Series 6500 for extending the surveillance range from 70 to 100m. The reflector consists of 3 parts, which are mounted together with the mirror that comes enclosed with the detector.



Specifications

Material	plastics
Dimensions W × H × D	200 × 230 × 10 (mm), single unit
Dimensions W × H	400 × 460 (mm), total reflecting area

Cross-references	Page	Art.Nr.	Name	Type
	198	244020	Beam Smoke Detector/Anal./SS 6500	
	196	244022	Beam Smoke Detector/Conv./SS 6500R	
	199	244021	Beam Smoke Detector/Test/Anal./SS 6500S	
	197	244023	Beam Smoke Detector/Test/Conv./SS 6500RS	

244025 Multi-Mount Kit/6500 BEAMMMK

Mounting accessory used to install the Beam Smoke Detector Series 6500 or the reflector for application under difficult conditions (slope of the ceiling, etc.). Depending on the application, the Multi-Mount Kit may be required for both the beam smoke detector and for the reflector. If the reflector must be used in connection with the Multi-Mount Kit, the surveillance range is limited to 70 meters.

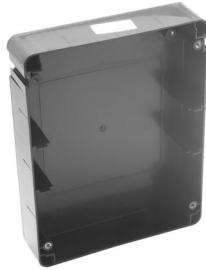


Features

- ◆ Three-dimensional adjustment of the bracket possible
- ◆ Mounting alternatively on ceiling or wall

244026 Surface Mount Kit/6500 BEAMSMK

The Surface Mount Kit BEAMSMK allows for the surface mounting of the Beam Smoke Detector Series 6500 or for the mounting of the detector in combination with the Multi-Mount Kit BEAMMMK.

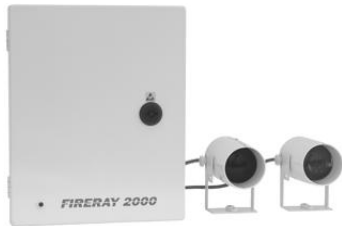


Specifications

Material	plastics
Dimensions W × H × D	180 × 230 × 50 (mm)

244610 Beam Smoke Detector/Conv. FR2000

Beam smoke detector operating on the infra-red principle for the surveillance of open areas with a range of 10m to 100m, consisting of separate sender and receiver units and a control unit in a sheet steel housing, suitable for indoor mounting. Slow changes of the operating conditions (e.g., contamination of the optics) do not result in false alarms but are compensated by the automatic drift compensation. Connection in conventional technology via terminals inside the control unit housing. Connection to an ADM loop is achieved via auxiliary modules. A separate power supply is required.



Features

- ◆ Detection of clear and dark smoke
- ◆ Sender projects a modulated infra-red beam to the receiver
- ◆ Received signal is analysed and compared with the stored reference value
- ◆ Automatic calibration of sensitivity to compensate for ageing and contamination
- ◆ LED display on the receiver for operation, alarm and fault
- ◆ LED display on sender and receiver serve as adjusting aid for amplification, signal interruption, signal high and signal low
- ◆ Relays for reporting to the superior fire detection control panel
- ◆ Mounting brackets for wall and ceiling mounting
- ◆ Test filter for easy commissioning

Specifications

Supply voltage	11.5 to 28VDC
Current consumption at 24V	8mA (quiescent), 16mA (active)
Contact load	32V/1A
Ambient temperature	-20°C to +55°C
Protection class	IP50
Dimensions	
Sender unit Ø × L	60 × 102 (mm)
Receiver unit Ø × L	60 × 102 (mm)
Control unit W × H × D	210 × 265 × 85 (mm)
Weight sender	0.5kg
Weight receiver	0.5kg
Weight control unit	2.1kg
Approval	VdS G297058

Cross-references	Page	Art.Nr.	Name	Type
	155	249028	Address Module/Conv./Apo NG60-1	
	119	249020	Address Module/Conv. NG58-1	
	35	214020	Conventional Detector Interface GIF8-1	
	100	249104	Conventional Zone Module/Anal./200/SS M210E-CZ	
	208	222013	Detector Reset Module MQZ1000-1	

8	210110	Detector Zone Extension MGE8-1
7	210122	Fire and Evacuation Panel BC016-2/INT1
6	210102	Fire Detection Control Panel BC016-1/INT1
1	210205	Fire Detection Control Panel BC06-1/INT1
3	210209	Fire Detection Control Panel BC06-2/INT1
143	249072	Monitor Module/Anal./XP95/Apo ÜMS-55000-841
4	210210	Zone Extension Board ZEB2-1

244637

Linear Heat Detection Unit Alarmline/Conv. LWM-1

The heat detection unit LWM-1 forms, together with the sensing cable, a linear thermal detection system. The sensing cable consist of 4 copper wires, which are isolated with a material with a negative temperature coefficient.



The resistance of the sensor wires is permanently monitored. Thereby, an exceeding of the maximum temperature (thermal maximum function) or a sudden temperature rise (rate-of-rise function) at any point of the sensing cable can be detected.

Therefore, the thermal detection system is ideally suited for monitoring of garages, cold storage houses, tunnels, depots, false floors and all areas and rooms, which are difficult to access or are in difficult environmental conditions.

The activation temperature of the maximum alarm can be set with a 15-step switch, whereas the activation threshold of the differential alarm can be adjusted with two switches in 16 steps. Thereby, the heat detection unit can be easily adapted to the respective application. Four LEDs (operation, maximum alarm, differential alarm, fault) indicate the actual condition of the heat detection unit. The unit can be reset either by interruption of the supply voltage, actuation of the external reset input or via the internal 'Reset' button. Two test buttons (alarm and fault test as well as LED test) allow an electrical system test.

The heat detection unit is accommodated in a plastic housing. The connection to the fire detection control panel is carried out in conventional technology via one dry contact for alarm and one for fault.

Features

- ◆ Length of sensing cable up to 300m
- ◆ Detection of exceeding temperatures at any point of the sensing cable
- ◆ High security against false alarms, also in difficult environmental conditions
- ◆ Simple mounting, commissioning and maintenance
- ◆ Heat detection unit can be mounted up to 500m away from sensing cable

Specifications

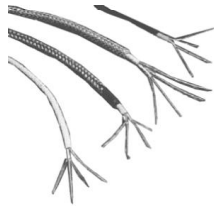
Operating voltage	10 - 30VDC
Current consumption at 24VDC	25mA (quiescent and active)
Ambient temperature	-20°C to +50°C
Protection class	IP65
Dimensions W × H × D	200 × 120 × 80 (mm)
Material	ABS
Colour	light grey, RAL 7035
Weight	550g
Approval	VdS G205066

Cross-references	Page	Art.Nr.	Name	Type
	155	249028	Address Module/Conv./Apo NG60-1	
	119	249020	Address Module/Conv. NG58-1	
	35	214020	Conventional Detector Interface GIF8-1	
	100	249104	Conventional Zone Module/Anal./200/SS M210E-CZ	
	208	222013	Detector Reset Module MQZ1000-1	
	8	210110	Detector Zone Extension MGE8-1	
	7	210122	Fire and Evacuation Panel BC016-2/INT1	
	6	210102	Fire Detection Control Panel BC016-1/INT1	
	1	210205	Fire Detection Control Panel BC06-1/INT1	
	3	210209	Fire Detection Control Panel BC06-2/INT1	
	143	249072	Monitor Module/Anal./XP95/Apo ÜMS-55000-841	
	203	244622	Sensing Cable/Black/LWM SK1800011	
	203	244628	Sensing Cable/Blue/LWM SK1800010	

204	244624	Sensing Cable/Stainless Steel/LWM SK11800013
4	210210	Zone Extension Board ZEB2-1

244628 Sensing Cable/Blue/LWM SK1800010

The blue Alarmline sensing cable consists of four copper wires, each of them being coated with a colour-coded material with a negative temperature coefficient. The wires are twisted and isolated with an outer layer made of temperature-resistant and fire-retardant plastic. On one side of the cable, the four wires are connected to an evaluation unit or a junction box. On the other side, they are connected with each other and are hermetically sealed, thereby creating two loops. Both loops are permanently monitored. An interruption or a short circuit in one of the two loops causes a fault message in the evaluation unit.



The blue sensing cable is used in monitored zones, where an increased exposure to dust and humidity can be expected.

Features

- ◆ Length of sensing cable up to 300m
- ◆ Detection of exceeding temperatures at any point of the sensing cable
- ◆ Resistant against dust and humidity
- ◆ Easy to install

Specifications

Outer diameter	3.2mm
Wire gauge	0.46mm
Temperature resistance	up to 100°C unlimited up to 150°C - 350 hours up to 175°C - 25 hours

Cross-references	Page	Art.Nr.	Name	Type
	202	244637	Linear Heat Detection Unit Alarmline/Conv. LWM-1	

244622 Sensing Cable/Black/LWM SK1800011

The black Alarmline sensing cable with nylon coating consists of four copper wires, each of them being coated with a colour-coded material with a negative temperature coefficient. The wires are twisted and isolated with an outer layer made of temperature-resistant and fire-retardant plastic. On one side of the cable, the four wires are connected to an evaluation unit or a junction box. On the other side, they are connected with each other and are hermetically sealed, thereby creating two loops. Both loops are permanently monitored. An interruption or a short circuit in one of the two loops causes a fault message in the evaluation unit.

The black sensing cable with nylon coating has a high resistance against chemical and biological agents. Therefore, it is applied in areas, where acidic, alkaline or solvent fumes can occur. In addition, the cable is UV-resistant and therefore suitable for outdoor application.

Features

- ◆ Length of sensing cable up to 300m
- ◆ Detection of exceeding temperatures at any point of the sensing cable
- ◆ Resistant against chemical and biological agents
- ◆ Suitable for outdoor application
- ◆ Easy to install

Specifications

Outer diameter	4.8mm
Wire gauge	0.46mm
Temperature resistance	up to 100°C unlimited up to 150°C - 350 hours up to 175°C - 25 hours

Cross-references	Page	Art.Nr.	Name	Type
	202	244637	Linear Heat Detection Unit Alarmline/Conv.	LWM-1

244624 Sensing Cable/Stainless Steel/LWM SK11800013

The Alarmline sensing cable with a stainless steel meshwork consists of four copper wires, each of them being coated with a colour-coded material with a negative temperature coefficient. The wires are twisted and isolated with an outer layer made of temperature-resistant and fire-retardant plastic. On one side of the cable, the four wires are connected to an evaluation unit or a junction box. On the other side, they are connected with each other and are hermetically sealed, thereby creating two loops. Both loops are permanently monitored. An interruption or a short circuit in one of the two loops causes a fault message in the evaluation unit.

The black sensing cable with a stainless steel meshwork has a high resistance against chemical and biological agents and is additionally protected against rough, mechanical strains.

Features

- ◆ Length of sensing cable up to 300m
- ◆ Detection of exceeding temperatures at any point of the sensing cable
- ◆ Resistant against chemical and biological agents as well as mechanical strains
- ◆ Easy to install

Specifications

Outer diameter	5.8mm
Wire gauge	0.46mm
Temperature resistance	up to 100°C unlimited up to 150°C - 350 hours up to 175°C - 25 hours

Cross-references	Page	Art.Nr.	Name	Type
	202	244637	Linear Heat Detection Unit Alarmline/Conv.	LWM-1

244638 Interconnector/LWM ZV22-11800-103

Interconnector for temperature resistant sensing cables consists of a white, black and red shrink tube and is used for connection of two sensing cables or for integration of an additional cable section.

Cross-references	Page	Art.Nr.	Name	Type
	203	244622	Sensing Cable/Black/LWM SK1800011	
	203	244628	Sensing Cable/Blue/LWM SK1800010	
	204	244624	Sensing Cable/Stainless Steel/LWM SK11800013	

244639 Termination Connector/LWM AV22-11800-102

Termination connector for temperature resistant sensing cables consists of a white inner layer and a black end cap, for hermetic sealing of sensing cable ends.

Cross-references	Page	Art.Nr.	Name	Type
	203	244622	Sensing Cable/Black/LWM SK1800011	
	203	244628	Sensing Cable/Blue/LWM SK1800010	
	204	244624	Sensing Cable/Stainless Steel/LWM SK11800013	

244629 Mounting Base TC358

Mounting base for mounting of temperature-resistant sensing cables to concrete ceilings. For installation, the mounting base is fixed in a hole with a 6mm diameter that has to be drilled into the ceiling, and is mounted in a distance of 1cm to the ceiling. The sensing cable is mounted to the base via a cable tie.

Cross-references	Page	Art.Nr.	Name	Type
	203	244622	Sensing Cable/Black/LWM SK1800011	
	203	244628	Sensing Cable/Blue/LWM SK1800010	
	204	244624	Sensing Cable/Stainless Steel/LWM SK11800013	
	207	244634	Sensor Cable/Black/SKM SK-SCHWARZ	
	206	244633	Standard Sensor Cable/Red/SKM SK-ROT	

244630 Mounting Clip 3040/LSK

Insulating grip saddle for mounting of temperature-resistant sensing cables to concrete ceilings. Please note that the mounting clip has a limited resistance against acids and solvents. Therefore, it is not recommended for use in environments where sensing cables either with black nylon coating or stainless steel meshwork are usually applied.

Cross-references	Page	Art.Nr.	Name	Type
	203	244628	Sensing Cable/Blue/LWM SK1800010	
	207	244634	Sensor Cable/Black/SKM SK-SCHWARZ	
	206	244633	Standard Sensor Cable/Red/SKM SK-ROT	

244631 Sensor Cable Monitoring System/Conv. SKM-03

Linear heat detection system according to EN 54-5 class C (max. room height 6m) for the secure detection of maximum temperature exceedances over the entire length of the sensor cable. Connection via dry relay contacts to a conventional detector line or in modern ring-bus technology via appropriate modules with external power supply.



Features

- ◆ Sensor cables up to 300m length can be connected
- ◆ Detection of exceeding temperatures at any point of the sensing cable
- ◆ Easy-to-maintain system
- ◆ Separate alarm and fault indication
- ◆ Alarm indication according to DIN 14623
- ◆ Easy commissioning

Specifications

Operating voltage	16 to 28VDC
Current consumption at 24VDC	28mA (quiescent), 58mA (alarm)
Ambient temperature	-25°C to +50°C
Protection class	IP65
Dimensions W × H × D	105 × 105 × 65 (mm)
Material	polycarbonate
Colour	grey white, RAL 9002
Weight	300g
Approval	VdS G203076

Cross-references	Page	Art.Nr.	Name	Type
	155	249028	Address Module/Conv./Apo NG60-1	
	119	249020	Address Module/Conv. NG58-1	
	35	214020	Conventional Detector Interface GIF8-1	
	100	249104	Conventional Zone Module/Anal./200/SS M210E-CZ	
	146	249075	Conventional Zone Module/Anal./XP95/Apo GWM-55000-845	
	8	210110	Detector Zone Extension MGE8-1	
	7	210122	Fire and Evacuation Panel BC016-2/INT1	
	6	210102	Fire Detection Control Panel BC016-1/INT1	
	1	210205	Fire Detection Control Panel BC06-1/INT1	

3	210209	Fire Detection Control Panel BC06-2/INT1
207	244634	Sensor Cable/Black/SKM SK-SCHWARZ
206	244633	Standard Sensor Cable/Red/SKM SK-ROT
4	210210	Zone Extension Board ZEB2-1

244632 Sensor Cable Monitoring System/Anal./XP95/Apo SKM-95

Linear heat detection system according to EN 54-5 class C (max. room height 6m) for the secure detection of maximum temperature exceedances over the entire length of the sensor cable. Direct connection and supply through the ADM loop using Apollo/Discovery protocol.



Thanks to the integrated dual-isolator, the loop is disconnected at short circuit.

Features

- ◆ Sensor cables up to 300m length can be connected
 - ◆ Detection of exceeding temperatures at any point of the sensing cable
 - ◆ Easy-to-maintain system
 - ◆ Separate alarm and fault indication
 - ◆ Integrated dual-isolator
- ◆ Direct connection to the ADM loop with Apollo/Discovery protocol
 - ◆ Alarm indication according to DIN 14623
 - ◆ Easy commissioning

Specifications

Operating voltage	supplied through loop voltage
Current consumption at 24VDC	2mA (quiescent), 3.2mA (alarm)
Ambient temperature	-25°C to +50°C
Protection class	IP65
Dimensions W × H × D	105 × 105 × 65 (mm)
Material	polycarbonate
Colour	grey white, RAL 9002
Weight	300g
Approval	VdS G203077

Cross-references	Page	Art.Nr.	Name	Type
	26	214034	BCnet Sectional Control Panel/Extension BCE216-3LG	
	32	214234	Fire Detection Control Panel Module/LG BCM216-3ELG	
	35	214021	Loop Interface LIF64-1	
	207	244634	Sensor Cable/Black/SKM SK-SCHWARZ	
	206	244633	Standard Sensor Cable/Red/SKM SK-ROT	

244633 Standard Sensor Cable/Red/SKM SK-ROT

The sensor cable comprises an internal and an external conductor, the external conductor is designed as wire mesh. A synthetic material with a negative temperature coefficient is used for isolation, i.e. the isolator resistance decreases with increasing temperature. At the end of the sensor cable the conductor is connected to a termination box with a defined end-of-line resistance. The entire line is continuously monitored for wire breakage and short circuit.



Features

- ◆ Sensor cable length up to 300m
- ◆ Detection of exceeding temperatures at any point of the sensing cable
- ◆ Easy installation

Specifications

Outer diameter	3.25mm
Tensile strength	< 200N

Cable type	plastic coaxial cable
Weight of sensor cable	1.6kg per 100m

Cross-references	Page	Art.Nr.	Name	Type
	206	244632	Sensor Cable Monitoring System/Anal./XP95/Apo SKM-95	
	205	244631	Sensor Cable Monitoring System/Conv. SKM-03	

244634**Sensor Cable/Black/SKM SK-SCHWARZ**

The Sensor Cable Black is provided with an additional synthetic jacket. It is therefore acid and alkaline resistant and can be used in harsh environmental conditions. It comprises an internal and an external conductor, the external conductor is designed as wire mesh. A synthetic material with a negative temperature coefficient is used for isolation, i.e. the isolator resistance decreases with increasing temperature. At the end of the sensor cable the conductor is connected to a termination box with a defined end-of-line resistance. The entire line is continuously monitored for wire breakage and short circuit.

Features

- ◆ Sensor cable length up to 300m
- ◆ Detection of exceeding temperatures at any point of the sensing cable
- ◆ Easy installation

Specifications

Outer diameter	4mm
Tensile strength	< 200N
Cable type	Synthetic coaxial cable with nylon jacket
Weight of sensor cable	3.0kg per 100m

Cross-references	Page	Art.Nr.	Name	Type
	206	244632	Sensor Cable Monitoring System/Anal./XP95/Apo SKM-95	
	205	244631	Sensor Cable Monitoring System/Conv. SKM-03	

244620**Gas Detector Methane GM-METHAN**

Compact gas detector for the detection of methane (natural gas) below the explosion limit. The detector is suitable mainly for the application in private households and for the surveillance of gas pipes, gas fireplaces and gas valves in any facilities where gas leaks can occur. The gas detector signals pre-alarm at 10% of the lower explosion limit and alarm at 20% of the lower explosion limit.

Features

- ◆ Alarm indication through red LED
- ◆ Acoustic indication of pre-alarm and alarm
- ◆ Relays for pre-alarm and alarm
- ◆ Alarm resetting via button

Specifications

Operating voltage	8.5 to 14VDC
Current consumption	max. 200mA
Contact rating relay 1 & 2	120VAC/1A, 24VDC/1A
Ambient temperature	0°C to +60°C
Sensor heating power	750mW
Dimensions W × H × D	120 × 120 × 30 (mm)

244621**Gas Detector Propane GM-PROPAN**

Compact gas detector for the detection of propane below the explosion limit. The detector is suitable mainly for the application in private households where propane gas bottles are used.



The gas detector signals pre-alarm at 10% of the lower explosion limit and alarm at 20% of the lower explosion limit.

Features

- ◆ Alarm indication through red LED
- ◆ Acoustic indication of pre-alarm and alarm
- ◆ Relays for pre-alarm and alarm
- ◆ Alarm resetting via button

Specifications

Operating voltage	8.5 to 14VDC
Current consumption	max. 200mA
Contact rating relay 1 & 2	120VAC/1A, 24VDC/1A
Ambient temperature	0°C to +60°C
Sensor heating power	750mW
Dimensions W × H × D	120 × 120 × 30 (mm)

244619

Gas Detector 230V GM-MEIBU-230V

Compact gas detector with sensor technology for detection of methane (natural gas), propane and butane (available in cylinders) in houses or apartments.



Features

- ◆ Display of operating condition via green LED indicator
 - ◆ Fault display via yellow LED indicator
 - ◆ Alarm display via red LED indicator
 - ◆ Integrated sounder
 - ◆ Push-button for detector test and silencing of sounder
- ◆ Additional output for the connection of an external relay (max. 50mA)

Specifications

Operating voltage	230VAC +10%/-10%, 50Hz
Power consumption	2.6W
Ambient temperature	0°C to +40°C
Response threshold	<25% of lower explosion limit
Sound level of signal	85dB / 1m distance
Dimensions L × W × H	156 × 80 × 51 (mm)
Approvals	tested according to BS 7348/1990, EN 60335-1, ERG/GS

222013

Detector Reset Module MQZ1000-1

Componentry for the connection of special detectors with separate power supply (e.g., RF interfaces, aspiration smoke detection systems, beam smoke detectors) to detector lines in addressable conventional technology. The componentry allows for the resetting of an activated special detector, directly from the fire detection control panel, by resetting the corresponding detector zone. Depending on the connection, both detectors with integrated reset input and detectors, which are reset by disconnecting the power supply can be reset.



Features

- ◆ Integrated processing logic for the detector line signal
- ◆ LED display for signalling the activation

Specifications

Operating voltage	20 to 31VDC
Supply current	max. 1A
Current consumption at 24V	1mA (quiescent) 20mA (active)
Reset contact rating	1A/60V/30W
Ambient temperature	-5°C to +50°C
Dimensions W × H × D	70 × 45 × 17 (mm)

Weight approx. 40g

Cross-references	Page	Art.Nr.	Name	Type
	213	244180	Aspiration Smoke Detection System Housing TP-1	
	214	244181	Aspiration Smoke Detection System Housing TP-2	
	217	244300	Aspiration Smoke Detection System Housing TT-1	
	219	244155	Aspiration Smoke Detection System T-SS	
	220	244170	Aspiration Smoke Detection System VLS-304	
	196	244022	Beam Smoke Detector/Conv./SS 6500R	
	201	244610	Beam Smoke Detector/Conv. FR2000	
	197	244023	Beam Smoke Detector/Test/Conv./SS 6500RS	
	202	244637	Linear Heat Detection Unit Alarmline/Conv. LWM-1	
	184	249201	RF-Interface/4Rel FUIF511-27D	
	188	249203	RF-Interface/4Rel M400RFE-AS	
	205	244631	Sensor Cable Monitoring System/Conv. SKM-03	

241603

Optical Battery Smoke Detector FL10022H

Photo-optical 9V smoke detector with included mounting base in flat design, suitable for application in houses, apartments, bedrooms, nurseries and halls.



Features

- ◆ Integrated sounder
- ◆ Test button for testing the battery
- ◆ Battery removal protection
- ◆ Possible network with up to 30 additional detectors
- ◆ Easy installation
- ◆ Compact, appealing design

Specifications

Operating voltage	9V block battery (included)
Recommended batteries	GP Super Alkaline, # 1604 A Eveready Alkaline, # 522 Duracell, # MN 1604
Sound level	approx. 85dB at 3m distance
Ambient temperature	0°C to +50°C
Relative humidity	10 to 95% (no condensation)
Dimensions Ø × H	110 × 40 (mm)
Colour	signal white, RAL 9003
Weight	150g
Approval	VdS G200054

21 Aspiration Smoke Detection Systems

244030 Aspiration Smoke Detection System A211E-LSR

The Aspiration Smoke Detection System A211E-LSR aspirates air from the monitored room via the connected sensor pipe network and directs the air to a highly sensitive laser smoke detector. If the smoke concentration exceeds the permissible value, an alarm is activated, which is optically displayed on the system and can be further transmitted to a fire detection control panel. The system can be used for early fire detection in room and equipment monitoring, due to the high response sensitivity of the laser smoke detector.



Connection to the fire detection control panel is possible either in conventional technology via dry relay contacts, or via an ADM loop using System Sensor/200 protocol. The preferred mode of operation must be parameterised at the

aspiration smoke detection system.

The converter module, which is integrated in the aspiration smoke detection system, constitutes the interface for communication via the ADM loop. It has one address assigned for both the detector and the control module. A dual-isolator disconnects the loop at short circuit, but can be by-passed, when connected accordingly.

The aspiration smoke detection system can be parameterised with 3 response thresholds for the conditions ALERT, ACTION and FIRE. The reaching of the ALERT threshold can be transmitted via the ADM loop to the fire detection control panel and be displayed as technical message. The relay ACTION is activated once the ACTION threshold is exceeded. Reaching the FIRE threshold activates a fire alarm. If the aspiration smoke detection system is connected to an ADM loop, the relay FIRE has to be activated by the control panel through parameterisation of the relevant control module. In this case, the relays ACTION and FIRE can be used for general control tasks.

If the aspiration smoke detection system is connected in conventional technology via the relay contacts, the relay ACTION can activate a technical message for the indication of a pre-warning. The fire alarm is activated via the relay FIRE, which, in this case, is auto-activated by the aspiration smoke detection system.

The continuous air flow, which is generated by a ventilator in the aspiration smoke detection system housing, is permanently monitored. The system identifies the failure of the ventilator, blocking of aspiration holes and pipe burst as fault.

Disturbance of air flow or fault of power supply is signalled via the loop address of the control module, whereas fault of the laser smoke detector is transmitted via the detector address. Every fault condition also causes the deactivation of the relay FAULT. This relay serves for transmission of fault messages when connected in conventional technology.

The conditions for operation, summary fault, detector fault, ventilator fault, ALERT, ACTION and FIRE are signalled via LEDs. The velocity of air flow or alternatively the smoke density can be indicated via a 10-step LED display.

The Aspiration Smoke Detection System A211E-LSR can be equipped with an optional second laser smoke detector, which is in interdependence with the first detector, if fire alarm systems require a double-knock function.

The aspiration smoke detection system is provided with the entire evaluation electronics and the laser smoke detector, but without the sensor pipe network.

Specifications

Supply voltage	18 - 30VDC
Current consumption ext. supply	80 - 500mA (at 24V, depending on tube length and ventilator speed)
Current consumption from loop	max. 390µA (quiescent)

Response sensitivity of detector	0,03%/m to 3,33%/m
Pipe length	max. 75m
Ambient temperature	-10°C to +60°C
Humidity	max. 95% (non-condensing)
Protection class	IP50 (optionally IP65)
Dimensions W × H × D	258 × 194 × 145 (mm)
Weight	1.9kg
Approval	VdS pending

Cross-references	Page	Art.Nr.	Name	Type
	26	214034	BCnet Sectional Control Panel/Extension BCE216-3LG	
	109	246002	Detector Base/Anal./500/200/SS B501	
	32	214234	Fire Detection Control Panel Module/LG BCM216-3ELG	
	35	214021	Loop Interface LIF64-1	
	91	241050	Optical Laser Detector/Anal./200/SS 7251	

244031

Aspiration Smoke Detection System A222E-LSR

The two-channel Aspiration Smoke Detection System A222E-LSR contains two separate sensing chambers for monitoring two independent areas. Air from a monitored room is aspirated by each of the sensor pipe networks, that are connected to the housing, and is directed to the respective highly sensitive laser smoke detector. If the smoke concentration exceeds the permissible value, an alarm is activated, which is optically displayed on the system and can be further transmitted to a fire detection control panel. The alarm can be reset at the control panel. The system can be used for early fire detection in room and equipment monitoring, due to the high response sensitivity of the laser smoke detector.



Connection to the fire detection control panel is possible either in conventional technology via dry relay contacts or via an ADM loop using System Sensor/200 protocol. The preferred mode of operation must be parameterised at the aspiration smoke detection system.

The converter module, which is integrated in the aspiration smoke detection system, constitutes the interface for communication via the ADM loop. For each channel it has one address assigned for both the detector and the control module. A dual-isolator disconnects the loop at short circuit, but can be by-passed, when connected accordingly.

The aspiration smoke detection system can - separately for both channels - be parameterised with 3 response thresholds for the conditions ALERT, ACTION and FIRE. The reaching of the ALERT threshold can be transmitted via the ADM loop to the fire detection control panel and be displayed as technical message. The relay ACTION is activated once the ACTION threshold is exceeded. Reaching the FIRE threshold activates a fire alarm. If the aspiration smoke detection system is connected to an ADM loop, the relay FIRE has to be activated by the control panel through parameterisation of the relevant control module. In this case, the relays ACTION and FIRE can be used for general control tasks.

If the aspiration smoke detection system is connected in conventional technology via the relay contacts, the relay ACTION can activate a technical message for the indication of a pre-warning. The fire alarm is activated via the relay FIRE, which, in this case, is auto-activated by the aspiration smoke detection system.

The continuous air flow in both channels, which is generated by a ventilator in the aspiration smoke detection system housing, is permanently monitored. The system identifies the failure of the ventilator, blocking of aspiration holes and pipe burst as fault.

Disturbance of air flow or fault of power supply is signalled via the loop address of the control module of the affected channel, whereas fault of the laser smoke detector is transmitted via the according detector address. Every fault condition of a channel also causes the deactivation of the relay FAULT. This relay serves for transmission of fault messages when connected in conventional technology.

The conditions for detector fault, ventilator fault, ALERT, ACTION and FIRE of each channel are signalled via LEDs. The conditions for operation and summary fault are signalled by one combined LED. The velocity of air flow or alternatively the smoke density of each channel can be indicated via 10-step LED displays.

The aspiration smoke detection system is provided with the entire evaluation electronics and the laser smoke detector, but **without the sensor pipe network**.

Specifications

Supply voltage	18 - 30VDC
Current consumption ext. supply	80 - 500mA (at 24V, depending on tube length and ventilator speed)
Current consumption by loop	max. 390µA (quiescent)
Response sensitivity of detector	0,03%/m to 3,33%/m
Pipe length	max. 50m per channel
Ambient temperature	-10°C to +60°C
Humidity	max. 95% (non-condensing)
Protection class	IP50 (optionally IP65)
Dimensions W × H × D	258 × 194 × 145 (mm)
Weight	1.9kg
Approval	VdS pending

Cross-references	Page	Art.Nr.	Name	Type
	26	214034	BCnet Sectional Control Panel/Extension BCE216-3LG	
	32	214234	Fire Detection Control Panel Module/LG BCM216-3ELG	
	35	214021	Loop Interface LIF64-1	

244032

Aspiration Smoke Detection System Housing A310E

The Aspiration Smoke Detection System Housing A310E can accommodate one or two smoke detectors of any manufacturer. Air from the monitored room is aspirated by the sensor pipe network, that is connected to the housing, and is directed to the detector. Evaluation of



the characteristics of smoke and the detection of alarm and fault depends on the applied detector. The use of a sensitive detector is recommended, such as a laser smoke detector, to effectively detect a fire in an early stage.

The continuous air flow, which is generated by a ventilator in the aspiration smoke detection system housing, is permanently monitored. The system identifies the failure of the ventilator, blocking of aspiration holes and pipe burst as fault.

The conditions for operation, summary fault and ventilator fault are signalled via LEDs. The velocity of air flow is indicated via a 10-step LED display.

The Aspiration Smoke Detection System Housing A310E can be equipped with an optional second smoke detector and set in interdependence with the first detector, if fire alarm systems require a double-knock function.

Smoke detector, detector base and sensor pipe network are not provided with the aspiration smoke detection system housing.

Specifications

Supply voltage	18 - 30VDC
Current consumption ext. supply	80 - 500mA (at 24V, depending on tube length and ventilator speed)
Pipe length	max. 100m
Ambient temperature	-10°C to +60°C
Humidity	max. 95% (non-condensing)
Protection class	IP50 (optionally IP65)
Dimensions W × H × D	258 × 194 × 145 (mm)
Weight	1.67kg
Approval	VdS pending

Cross-references	Page	Art.Nr.	Name	Type
	91	241050	Optical Laser Detector/Anal./200/SS 7251	
	90	241010	Optical Smoke Detector/Anal./200/SS ND2251EM	

244033

Aspiration Smoke Detection System Housing A320E

The two-channel Aspiration Smoke Detection System Housing A320E contains two separate sensing chambers for monitoring of two independent areas. Each sensing chamber can accommodate one smoke detector of any manufacturer. Air from the monitored room is aspirated by each of the sensor pipe networks, that are connected to the housing, and is directed to the respective detector. Evaluation of the characteristics of smoke and the detection of alarm and fault depends on the applied detector. The use of sensitive detectors is recommended, such as a laser smoke detector, to effectively detect a fire in an early stage.



The continuous air flow in both channels, which is generated by a ventilator in the aspiration smoke detection system housing, is permanently monitored. The system identifies the failure of the ventilator, blocking of aspiration holes and pipe burst as fault.

The velocity of air flow is indicated separately for each channel via 10-step LED displays. The conditions for operation, summary fault and ventilator fault are signalled by one combined LED.

Smoke detector, detector base and sensor pipe network are not provided with the aspiration smoke detection system housing.

Specifications

Supply voltage	18 - 30VDC
Current consumption ext. supply	80 - 500mA (at 24V, depending on tube length and ventilator speed)
Pipe length	max. 100m
Ambient temperature	-10°C to +60°C
Humidity	max. 95% (non-condensing)
Protection class	IP50 (optionally IP65)
Dimensions W × H × D	258 × 194 × 145 (mm)
Weight	1.67kg
Approval	VdS pending

Cross-references	Page	Art.Nr.	Name	Type
	91	241050	Optical Laser Detector/Anal./200/SS 7251	
	90	241010	Optical Smoke Detector/Anal./200/SS ND2251EM	

244180

Aspiration Smoke Detection System Housing TP-1

The Aspiration Smoke Detection System Housing TP-1 samples air via the connected sensor pipe network from a monitored room and directs it to the detector module (not provided), which analyses the air samples. If the smoke concentration exceeds the permissible value, an alarm is activated, which is optically displayed on the system and further transmitted to a fire detection control panel. The alarm can be reset at the control panel. The system can be used for early fire detection in room and equipment monitoring, due to the high response sensitivity of the detector modules.



The continuous air flow, which is generated by a ventilator in the aspiration smoke detection system housing, is permanently monitored. A failure of the ventilator, blocking of aspiration holes or a pipe burst are optically displayed on the system and transmitted to the control panel as fault message.

The aspiration smoke detection system housing is provided with the entire evaluation electronics. However, **the detector module, the front foil and the sensor pipe network are not provided**. A serial interface is installed in the system for communication with a PC software. Operation, fault and alarm are indicated on the front side of the system via LEDs.

Features

- ◆ Applicable in addressable conventional technology with the optional Detector Reset Module MQZ1000-1
- ◆ Individual detector identification through connection of an optional address module NG58-1
- ◆ Connection to an ADM loop is possible via optional modules

Specifications

Supply voltage	14 - 30VDC
Current consumption at 24V	max. 275mA (quiescent), 285mA (alarm) incl. detector module
Pipe length	max. 180m
Number of aspiration holes	max. 20
Ambient temperature	-20°C to +60°C
Dimensions W × H × D	200 × 292 × 113 (mm)
Colour	white, RAL 9018
Weight	1.35kg
Approval	VdS G202064

Cross-references	Page	Art.Nr.	Name	Type
	119	249020	Address Module/Conv. NG58-1	
	35	214020	Conventional Detector Interface GIF8-1	
	100	249104	Conventional Zone Module/Anal./200/SS M210E-CZ	
	216	244183	Detector Module DM-TP-05-L	
	215	244182	Detector Module DM-TP-25-L	
	215	244186	Detector Module DM-TP-80L	
	208	222013	Detector Reset Module MQZ1000-1	
	8	210110	Detector Zone Extension MGE8-1	
	7	210122	Fire and Evacuation Panel BC016-2/INT1	
	6	210102	Fire Detection Control Panel BC016-1/INT1	
	1	210205	Fire Detection Control Panel BC06-1/INT1	
	3	210209	Fire Detection Control Panel BC06-2/INT1	
	216	244184	Front Foil FW-TP-1A	
	143	249072	Monitor Module/Anal./XP95/Apo ÜMS-55000-841	
	4	210210	Zone Extension Board ZEB2-1	

244181

Aspiration Smoke Detection System Housing TP-2

The Aspiration Smoke Detection System Housing TP-2 samples air from two monitored rooms via two connected sensor pipe networks and directs it to two detector modules (not provided), which analyse the air samples. If the smoke concentration exceeds the permissible



value, an alarm is activated, which is optically displayed on the system and further transmitted to a fire detection control panel. The alarm can be reset at the control panel. The system can be used for early fire detection in room and equipment monitoring, due to the high response sensitivity of detector modules, and is designed for the monitoring of two independent areas.

The continuous air flow, which is generated by a ventilator in the aspiration smoke detection system housing, is permanently monitored. A failure of the ventilator, blocking of aspiration holes or a pipe burst are optically displayed on the system and transmitted to the control panel as fault message.

The aspiration smoke detection system housing is provided with the entire evaluation electronics. However, **the detector module, the front foil and the sensor pipe network are not provided**. A serial interface is installed in the system for communication with a PC software. Operation, fault, alarm/area1 and alarm/area2 are indicated on the front side of the system via LEDs.

Features

- ◆ Applicable in addressable conventional technology with the optional Detector Reset Module MQZ1000-1
- ◆ Individual detector identification through connection of an optional address module NG58-1
- ◆ Connection to an ADM loop is possible via optional modules

Specifications

Supply voltage	14 - 30VDC
Current consumption at 24V	max. 295mA (quiescent), 315mA (alarm) incl. detector module
Pipe length	2 × max. 180m
Number of aspiration holes	2 × max. 20
Ambient temperature	-20°C to +60°C
Dimensions W × H × D	200 × 292 × 113 (mm)
Colour	white, RAL 9018
Weight	1.45kg
Approval	VdS G202064

Cross-references	Page	Art.Nr.	Name	Type
	119	249020	Address Module/Conv. NG58-1	
	35	214020	Conventional Detector Interface GIF8-1	
	100	249104	Conventional Zone Module/Anal./200/SS M210E-CZ	
	216	244183	Detector Module DM-TP-05-L	
	215	244182	Detector Module DM-TP-25-L	
	215	244186	Detector Module DM-TP-80L	
	208	222013	Detector Reset Module MQZ1000-1	
	8	210110	Detector Zone Extension MGE8-1	
	7	210122	Fire and Evacuation Panel BC016-2/INT1	
	6	210102	Fire Detection Control Panel BC016-1/INT1	
	1	210205	Fire Detection Control Panel BC06-1/INT1	
	3	210209	Fire Detection Control Panel BC06-2/INT1	
	216	244185	Front Foil FW-TP-2	
	143	249072	Monitor Module/Anal./XP95/Apo ÜMS-55000-841	
	4	210210	Zone Extension Board ZEB2-1	

244186**Detector Module DM-TP-80L**

The Detector Module DM-TP-80L is used for analysis and evaluation of air, which is sampled from the monitored area by the aspiration smoke detection system housing TP-x. The light obscuration and the air flow are measured by the detector module. The response



thresholds for the light obscuration and the air flow are separately adjustable. Dry contacts in the evaluation electronics of the aspiration smoke detection system housing signal the exceeding of alarm and fault thresholds.

Specifications

Response threshold	
Light obscuration	1.6 - 0.8%/m
Air flow monitoring	4 levels

Cross-references	Page	Art.Nr.	Name	Type
	213	244180	Aspiration Smoke Detection System Housing TP-1	
	214	244181	Aspiration Smoke Detection System Housing TP-2	

244182**Detector Module DM-TP-25-L**

The Detector Module DM-TP-25-L is used for analysis and evaluation of air, which is sampled from the monitored area by the aspiration smoke detection system housing TP-x.

The light obscuration and the air flow are measured by the detector module. The response thresholds for the light obscuration and the air flow can be selected in 4 steps. Dry contacts in the evaluation electronics of the aspiration smoke detection system housing signal the exceeding of alarm and fault thresholds.

Specifications

Response threshold

Light obscuration 2 - 1 - 0.5 - 0.25%/m
 Air flow monitoring 4 levels

Cross-references	Page	Art.Nr.	Name	Type
	213	244180	Aspiration Smoke Detection System Housing TP-1	
	214	244181	Aspiration Smoke Detection System Housing TP-2	

244183 Detector Module DM-TP-05-L

The Detector Module DM-TP-05-L is used for analysis and evaluation of air with particularly high sensitivity, which is sampled from the monitored area by the aspiration smoke detection system housing TP-x. The light obscuration and the air flow are measured by the detector module. The response thresholds for the light obscuration and the air flow can be selected in 4 steps. Dry contacts in the evaluation electronics of the aspiration smoke detection system housing signal the exceeding of alarm and fault thresholds.

Specifications

Response threshold

Light obscuration 0.4 - 0.2 - 0.1 - 0.05%/m
 Air flow monitoring 4 levels

Cross-references	Page	Art.Nr.	Name	Type
	213	244180	Aspiration Smoke Detection System Housing TP-1	
	214	244181	Aspiration Smoke Detection System Housing TP-2	

244184 Front Foil FW-TP-1A

For Aspiration Smoke Detection System Housing TP-1.



Cross-references	Page	Art.Nr.	Name	Type
	213	244180	Aspiration Smoke Detection System Housing TP-1	

244185 Front Foil FW-TP-2

For Aspiration Smoke Detection System Housing TP-2.



Cross-references	Page	Art.Nr.	Name	Type
	214	244181	Aspiration Smoke Detection System Housing TP-2	

244300 Aspiration Smoke Detection System Housing TT-1

The Aspiration Smoke Detection System Housing TT-1 samples air from a monitored room via a connected sensor pipe network and directs it to a detector module (not provided), which analyses the air samples. If the smoke concentration exceeds the permissible value, an alarm is activated, which is optically displayed on the system and further transmitted to a fire detection control panel. The alarm can be re-set at the control panel. The system can be used for early fire detection in room and equipment monitoring, due to the high response sensitivity of detector modules.



The continuous air flow, which is generated by a ventilator in the aspiration smoke detection system housing, is permanently monitored. A failure of the ventilator, blocking of aspiration holes or a pipe burst are optically displayed on the system and transmitted to the control panel as fault message.

The aspiration smoke detection system housing is provided with the entire evaluation electronics. However, **the detector module, the front foil and the sensor pipe network are not provided**. A serial interface is installed in the system for communication with a PC software. Operation, fault, info-alarm, pre-alarm and main alarm are indicated on the front side of the system via LEDs. In addition, for the display of the actual smoke density, a 10-step LED display is provided.

Features

- ◆ Applicable in addressable conventional technology with the optional Detector Reset Module MQZ1000-1
- ◆ Individual detector identification through connection of an optional address module NG58-1
- ◆ Connection to an ADM loop is possible via optional modules

Specifications

Supply voltage	14 - 30VDC
Current consumption at 24V	max. 260mA (quiescent), 290mA (alarm) incl. detector module
Pipe length	max. 180m
Number of aspiration holes	max. 24
Ambient temperature	-20°C to +60°C
Dimensions W × H × D	200 × 292 × 113 (mm)
Colour	white, RAL 9018
Weight	1.35kg
Approval	VdS G202064

Cross-references	Page	Art.Nr.	Name	Type
	119	249020	Address Module/Conv. NG58-1	
	35	214020	Conventional Detector Interface GIF8-1	
	100	249104	Conventional Zone Module/Anal./200/SS M210E-CZ	
	218	244304	Detector Module DM-TT-05-L	
	218	244303	Detector Module DM-TT-25-L	
	217	244302	Detector Module DM-TT-80-L	
	208	222013	Detector Reset Module MQZ1000-1	
	8	210110	Detector Zone Extension MGE8-1	
	7	210122	Fire and Evacuation Panel BC016-2/INT1	
	6	210102	Fire Detection Control Panel BC016-1/INT1	
	1	210205	Fire Detection Control Panel BC06-1/INT1	
	3	210209	Fire Detection Control Panel BC06-2/INT1	
	218	244305	Front Foil FW-TT-1	
	143	249072	Monitor Module/Anal./XP95/Apo ÜMS-55000-841	
	4	210210	Zone Extension Board ZEB2-1	

244302 Detector Module DM-TT-80-L

The Detector Module DM-TT-80-L is used for analysis and evaluation of air, which is sampled from the monitored area by the aspiration smoke detection system housing TT-1. The light obscuration and the air flow are measured by the detector module. The response



thresholds for the light obscuration and the air flow can be selected in 4 steps. Dry contacts in the evaluation electronics of the aspiration smoke detection system housing signal the exceeding of alarm and fault thresholds.

Specifications

Response threshold	
Light obscuration	1.6 - 0.8%/m
Air flow monitoring	4 levels

Cross-references	Page	Art.Nr.	Name	Type
	217	244300	Aspiration Smoke Detection System Housing	TT-1

244303 Detector Module DM-TT-25-L

The Detector Module DM-TT-25-L is used for analysis and evaluation of air, which is sampled from the monitored area by the aspiration smoke detection system housing TT-1. The light obscuration and the air flow are measured by the detector module. The response thresholds for the light obscuration and the air flow can be selected in 4 steps. Dry contacts in the evaluation electronics of the aspiration smoke detection system housing signal the exceeding of alarm and fault thresholds.

Specifications

Response threshold	
Light obscuration	2 - 1 - 0.5 - 0.25%/m
Air flow monitoring	4 levels

Cross-references	Page	Art.Nr.	Name	Type
	217	244300	Aspiration Smoke Detection System Housing	TT-1

244304 Detector Module DM-TT-05-L

The Detector Module DM-TT-05-L is used for analysis and evaluation of air, which is sampled from the monitored area by the aspiration smoke detection system housing TT-1. The light obscuration and the air flow are measured by the detector module. The response thresholds for the light obscuration and the air flow can be selected in 4 steps. Dry contacts in the evaluation electronics of the aspiration smoke detection system housing signal the exceeding of alarm and fault thresholds.

Specifications

Response threshold	
Light obscuration	0.4 - 0.2 - 0.1 - 0.05%/m
Air flow monitoring	4 levels

Cross-references	Page	Art.Nr.	Name	Type
	217	244300	Aspiration Smoke Detection System Housing	TT-1

244305 Front Foil FW-TT-1

For Aspiration Smoke Detection System Housing TT-1.



Cross-references	Page	Art.Nr.	Name	Type
	217	244300	Aspiration Smoke Detection System Housing TT-1	

244155 Aspiration Smoke Detection System T-SS

The Aspiration Smoke Detection System T-SS continuously samples air from a monitored room via a sensor pipe network and directs it to an automatic smoke evaluation unit. A ventilator in the interior of the aspiration smoke detection system housing generates a negative



pressure to continuously aspirate air through the sensor pipe network to the evaluation unit. Thereby, the system, which operates on the principle of scattered light, always obtains new air samples from the monitored area. If the smoke concentration exceeds the permissible value, an alarm is activated, which is optically displayed on the system and further transmitted to a fire detection control panel. There is also the possibility of activating 2 different pre-alarms. The alarm can be reset at the fire detection control panel. The air flow in the sensor pipe network is continuously monitored. The operational safety of the aspiration smoke detection system depends to a large extent on the permanent air supply of the detector. Therefore, a failure of the ventilator, blocking of aspiration holes or a pipe burst are immediately identified and transmitted to the control panel as fault

message. The sensitivity and the delay time of the air flow monitoring can be selected with two switches in 4 steps each. The aspiration smoke detection system housing is provided, including the entire evaluation and detection unit. However, **the sensor pipe network is not provided.**

Features

- ◆ Applicable in addressable conventional technology with the optional Detector Reset Module MQZ1000-1
- ◆ Individual detector identification through connection of an optional address module NG58-1
- ◆ Connection to an ADM loop is possible via optional modules

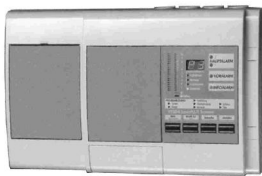
Specifications

Sensitivity	0,025 to 0,2%/m (adjustable in 4 steps)
Maximum pipe length	360m
Max. number of aspiration holes	72
Supply voltage	14 - 30VDC
Current consumption at 24V	approx. 400mA (quiescent), 450mA (active)
Ambient temperature	-10°C to +60°C (standard version)
Dimensions W × H × D	366 × 240 × 132 (mm)
Colour	white, RAL 9018
Weight	2.8kg
Protection class	IP20
Approval	VdS G201035

Cross-references	Page	Art.Nr.	Name	Type
	119	249020	Address Module/Conv. NG58-1	
	35	214020	Conventional Detector Interface GIF8-1	
	100	249104	Conventional Zone Module/Anal./200/SS M210E-CZ	
	208	222013	Detector Reset Module MQZ1000-1	
	8	210110	Detector Zone Extension MGE8-1	
	7	210122	Fire and Evacuation Panel BC016-2/INT1	
	6	210102	Fire Detection Control Panel BC016-1/INT1	
	1	210205	Fire Detection Control Panel BC06-1/INT1	
	3	210209	Fire Detection Control Panel BC06-2/INT1	
	143	249072	Monitor Module/Anal./XP95/Apo ÜMS-55000-841	
	4	210210	Zone Extension Board ZEB2-1	

244170 Aspiration Smoke Detection System VLS-304

The Aspiration Smoke Detection System VLS-304 samples air from the monitored room via up to four separate piping networks and directs it to the smoke evaluation unit, which operates using a laser light source on the principle of scattered light. Each sampling pipe represents an identifiable area that can be individually evaluated. If the smoke concentration exceeds the permissible value, an alarm is activated, which is optically displayed on the system and further transmitted to a fire detection control panel. Two pre-alarms can be activated by exceeding two lower thresholds, before reaching the alarm threshold. The alarm can be reset at the fire detection control panel.



The continuous air flow, which is generated by a ventilator in the interior of the evaluation unit, is permanently monitored. A failure of the ventilator, blocking of the aspiration holes or a pipe breakage are optically displayed on the system and transmitted to the control panel as fault message. The sensitivity and the delay time of the air flow monitoring can be individually adjusted. The aspiration smoke detection system is provided, including the entire evaluation and detection unit. However, **the sensor pipe network is not provided.**

Features

- ◆ Applicable in addressable conventional technology with the optional Detector Reset Module MQZ1000-1
- ◆ Individual detector identification through connection of an optional address module NG58-1
- ◆ Connection to an ADM loop is possible via optional modules

Specifications

Supply voltage	18 - 30VDC
Current consumption at 24V	320 - 530mA (quiescent), max. 660mA (active)
Sensitivity	0.05 to 20%/m
Pipe length	max. 200m
Monitored areas	max. 4
Number of aspiration holes	max. 100 (depending on the design of the pipe network)
Outputs	12 relays (function can be selected)
Ambient temperature	0°C to +39°C
Protection class	IP20
Dimensions W × H × D	350 × 225 × 125 (mm)
Colour	grey, RAL 7012
Weight	4.6kg
Approval	VdS G298024

Cross-references	Page	Art.Nr.	Name	Type
	119	249020	Address Module/Conv. NG58-1	
	35	214020	Conventional Detector Interface GIF8-1	
	100	249104	Conventional Zone Module/Anal./200/SS M210E-CZ	
	208	222013	Detector Reset Module MQZ1000-1	
	8	210110	Detector Zone Extension MGE8-1	
	7	210122	Fire and Evacuation Panel BC016-2/INT1	
	6	210102	Fire Detection Control Panel BC016-1/INT1	
	1	210205	Fire Detection Control Panel BC06-1/INT1	
	3	210209	Fire Detection Control Panel BC06-2/INT1	
	143	249072	Monitor Module/Anal./XP95/Apo ÜMS-55000-841	
	4	210210	Zone Extension Board ZEB2-1	

22

Accessories for Aspiration Smoke Detection Systems

- 244111 Sensor Pipe/PVC ROHR-PVC**
The sensor pipe is made of grey PVC (nominal width = 20mm, outer diameter = 25mm) for an aspiration smoke detection system. All joints of the piping system need to be glued together. The sensor pipe is provided in 5m long tubes.
- 244248 Sensor Tube/PVC/25 SCHL-PVC/25**
Flexible grey tube made of PVC (nominal width = 20mm, outer diameter = 25mm) for installing sections of the sensor pipe network of an aspiration smoke detection system under difficult conditions. The connection with the sensor duct is established via bushings. The sensor tube can be used in all systems, which contain an individual setting for the actual air flow conditions.
- 244112 Pipe Fitting/BOW90L BOGEN-90**
Pipe elbow (long radius) made of grey PVC (nominal width = 20mm), with a bending radius of 90°, designed for sensor pipes of aspiration smoke detection systems.
- 244113 Pipe Fitting/BOW90S WINKEL-90**
Pipe elbow (short radius) made of grey PVC (nominal width = 20mm), with a bending radius of 90°, designed for sensor pipes of aspiration smoke detection systems.
- 244114 Pipe Fitting/BOW45 WINKEL-45**
Pipe elbow (short radius) made of grey PVC (nominal width = 20mm), with a bending radius of 45°, designed for sensor pipes of aspiration smoke detection systems.
- 244115 Pipe Fitting/T90 T-STÜCK-90**
Pipe T-piece made of grey PVC (nominal width = 20mm), for a 90° junction, designed for sensor pipes of aspiration smoke detection systems.
- 244116 Pipe Fitting/T45 T-STÜCK-45**
Pipe T-piece made of grey PVC (nominal width = 20mm), for a 45° junction, designed for sensor pipes of aspiration smoke detection systems.
- 244118 Pipe Fitting/ADA MUFFE**
Pipe adapter made of grey PVC (nominal width = 20mm), for the connection of sensor pipes of aspiration smoke detection systems.

244119 Pipe Fitting/CAP KAPPE

Pipe end cap made of grey PVC (nominal width = 20mm), for sensor pipes of aspiration smoke detection systems.

244125 Pipe Connector/25 RKL25

Pipe junction made of grey PVC including screw nut, for fixation of rigid sensor pipes of aspiration smoke detection systems.

244235 Check Valve/Spring-loaded/R25 RVFED-25

The check valve is a safety device to protect the sensor pipe network and reduction foils during cleaning. The pressure is kept constant in the entire pipe network during the blow-out process by the check valve, thereby ensuring that all aspiration holes are cleaned equally. The check valve is installed at the end of the sensor pipe network.

244240 Ceiling Duct/complete DDF-KOMPL.

The ceiling duct enables a barely noticeable integration of aspiration holes in areas with inserted ceilings and in special applications, when air has to be sampled from closed rooms (e.g., 19" cabinets). The ceiling duct consists of an aspiration element including knurled nut for easy installation and a duct reducer. The Tube Fitting/T90 and the required reduction foil have to be ordered separately. A 2 meter long flexible aspiration tube can be installed per ceiling duct.

244201 Aspiration Tube DN-12x9

The Aspiration Tube DN-12x9 is used for the connection of system components of the ceiling duct. Due to the flexible design of the aspiration tube, aspiration elements can be precisely fit in the false ceiling and can be connected with the sensor pipe network.

244241 Air Filter for ASDS/complete LF-RAS

The air filter is placed in the sensor pipe network outside the aspiration smoke detection system housing, to protect the detector module against rapid contamination. The filter consists of 3 layers (one filter each course-medium-fine), which guarantee to reliably clean the aspirated air but simultaneously allow smoke particles to pass in case of fire. The filter is connected to the sensor pipe network via two PG 25 screw connections.

244237 Three-way Ball Valve 3MKH

The three-way ball valve enables the manual supply of compressed air to the sensor pipe network. During the change from normal mode to blow-out mode, the destruction of the aspiration smoke detection system is avoided due to the leak-proof centre position.

Specifications

Input pressure	max. 16bar
Connection	3/4"
Weight	450g

244236 Condensate Separator DN25 KABS-25

The condensate separator is for installation in the sensor pipe network and guarantees that air samples, which are directed to the aspiration smoke detection system, are dry. This is an

effective measure to keep the number of false alarms low in areas with low or varying temperatures and in areas with high humidity. The condensate separator contains a manual drain valve and should be regularly checked.

Specification

Input pressure max. 16bar
Ambient temperature 0°C to +50°C

2449999 Aspiration Hole Reduction Foils, Overview

Aspiration hole reduction foils are used for a precise design of aspiration holes on the sensing pipe network of the aspiration smoke detecting system. A separate version is available for deep-freezing areas.

Hole diameter	Standard version		Version for deep-freezing areas	
	Article number	Type	Article number	Type
2.0mm	244244	AREDF-2,0	244246	AREDF-2,0TK
2.5mm	244245	AREDF-2,5	244247	AREDF-2,5TK
3.0mm	244202	AREDF-3,0	244217	AREDF-3,0TK
3.2mm	244203	AREDF-3,2	244218	AREDF-3,2TK
3.4mm	244204	AREDF-3,4	244219	AREDF-3,4TK
3.6mm	244205	AREDF-3,6	244220	AREDF-3,6TK
3.8mm	244206	AREDF-3,8	244221	AREDF-3,8TK
4.0mm	244207	AREDF-4,0	244222	AREDF-4,0TK
4.2mm	244208	AREDF-4,2	244223	AREDF-4,2TK
4.4mm	244209	AREDF-4,4	244224	AREDF-4,4TK
4.6mm	244210	AREDF-4,6	244225	AREDF-4,6TK
5.0mm	244211	AREDF-5,0	244226	AREDF-5,0TK
5.2mm	244212	AREDF-5,2	244227	AREDF-5,2TK
5.6mm	244213	AREDF-5,6	244228	AREDF-5,6TK
6.0mm	244214	AREDF-6,0	244229	AREDF-6,0TK
6.8mm	244215	AREDF-6,8	244230	AREDF-6,8TK
7.0mm	244216	AREDF-7,0	244231	AREDF-7,0TK

244233 Banderole for Aspiration Hole Reduction Foil BA-AREDF

The banderole is used for reliable fixation of the aspiration hole reduction foil to the sensor pipe network of an aspiration smoke detection system.

244234 Plastic Clip for Aspiration Hole Reduction Foil/DF KC-AREDF-TK

The plastic clip is used for reliable fixation of an aspiration hole reduction foil in deep-freezing areas to the sensor pipe network of an aspiration smoke detection system.

244128 Glue/Tangit/0.12kg KLEB-RAS-01

Glue for the connection of individual components of a sensor pipe network. One packing unit contains 0.125kg, which is sufficient for gluing approx. 50 junctions.

244129 Glue/Tangit/0.25kg KLEB-RAS-02

Glue for the connection of individual components of a sensor pipe network. One packing unit contains 0.25kg, which is sufficient for gluing approx. 100 junctions.

244130 Glue/Tangit/0.5kg KLEB/RAS-05

Glue for the connection of individual components of a sensor pipe network. One packing unit contains 0.5kg, which is sufficient for gluing approx. 200 junctions.

244126 Glue/Tangit/1kg KLEB/RAS

Glue for the connecting individual components of a sensor pipe network. One packing unit contains 1kg, which is sufficient for approx. 400 junctions.

244131 Cleaner/Tangit/0.12l REIN-RAS-01

Cleaning liquid for removal of dirt, residual fat, etc., which is used before gluing individual components of the sensor pipe network. One packing unit contains 0.125 litre.

244127 Cleaner/Tangit/1l REIN/RAS

Cleaning liquid for removal of dirt, residual fat, etc., which is used before gluing individual components of the sensor pipe network. One packing unit contains 1 litre.

23

Labels

249211 Detector Label/Sheet/8pcs. BME/BEZ-BOG

The labels serve for the marking of an automatic fire detector with detector zone and detector number. It consists of a sturdy white plastic card to which an adhesive label can be stuck and signed. Direct marking of the plastic card is also an option. An A4-size sheet with 8 labels and 8 plastic cards are included in the delivery.

Specifications

Marking area W × H 80 × 40 (mm)

Cross-references	Page	Art.Nr.	Name	Type
	109	246002	Detector Base/Anal./500/200/SS B501	
	109	246015	Detector Base/Anal./500/200/SS B501DG	
	151	246025	Detector Base/Anal./Apo ASA-45681-210	
	107	246140	Detector Base/Conv./1000/SS ECO1000BR1000	
	105	246008	Detector Base/Conv./400/100/300/SS B401RM	
	149	246021	Detector Base/Conv./60/65/Apo GSA-45681-200	
	150	246042	Detector Base/Conv./ORBIS/Apo MB-00001	
	79	246070	Detector Base/FC600 FC600/BR	
	111	246012	Detector Base Filtrex/Anal./500/SS B524FTXE	
	79	246071	Detector Base with Diode/FC600 FC600/BRD	
	111	246018	Detector Heater Base/Anal./500/SS B524HTR	
	110	246016	Detector Relay Base/Anal./500/200/SS B524RTE	
	152	246037	Detector Relay Base/Anal./XP95/DISC/Apo ASR-45681-242	
	107	246141	Detector Relay Base/Conv./1000/SS ECO1000BREL24L	
	105	246100	Detector Relay Base/Conv./300/SS B324RL	
	150	246041	Detector Relay Base/Conv./ORBIS/Apo RB-10004	
	80	246072	Detector Relay Base/FC600 FC600/BREL	
	110	246013	Isolator Detector Base/Anal./500/200/SS B524IEFT-1	
	151	246036	Isolator Detector Base/Anal./Apo AISA-45681-321	

249240 Detector Label/Large/Sheet/8pcs. BME/GR-BOG

The inscribable adhesive label serves for the marking of fire detectors not directly visible (e.g., in inserted ceilings, inserted floors) or for marking other devices of the fire detection system (e.g., distribution boxes). An A4-size sheet contains 8 adhesive labels.

Specifications

Dimensions Ø 70mm
Marking area W × H 60 × 30 (mm)

Cross-references	Page	Art.Nr.	Name	Type
	109	246002	Detector Base/Anal./500/200/SS B501	
	109	246015	Detector Base/Anal./500/200/SS B501DG	
	151	246025	Detector Base/Anal./Apo ASA-45681-210	
	107	246140	Detector Base/Conv./1000/SS ECO1000BR1000	
	105	246008	Detector Base/Conv./400/100/300/SS B401RM	
	149	246021	Detector Base/Conv./60/65/Apo GSA-45681-200	
	150	246042	Detector Base/Conv./ORBIS/Apo MB-00001	
	79	246070	Detector Base/FC600 FC600/BR	
	111	246012	Detector Base Filtrex/Anal./500/SS B524FTXE	
	79	246071	Detector Base with Diode/FC600 FC600/BRD	
	111	246018	Detector Heater Base/Anal./500/SS B524HTR	
	110	246016	Detector Relay Base/Anal./500/200/SS B524RTE	
	152	246037	Detector Relay Base/Anal./XP95/DISC/Apo ASR-45681-242	
	107	246141	Detector Relay Base/Conv./1000/SS ECO1000BREL24L	
	105	246100	Detector Relay Base/Conv./300/SS B324RL	
	150	246041	Detector Relay Base/Conv./ORBIS/Apo RB-10004	
	80	246072	Detector Relay Base/FC600 FC600/BREL	
	110	246013	Isolator Detector Base/Anal./500/200/SS B524IEFT-1	
	151	246036	Isolator Detector Base/Anal./Apo AISA-45681-321	

249242 Detector Label/Small/Sheet/20pcs. BME/KL-BOG

The inscribable adhesive label serves for the marking of fire detectors not directly visible (e.g., in inserted ceilings, inserted floors) or for marking other devices of the fire detection system (e.g., distribution boxes). An A4-size sheet contains 20 adhesive labels.



Specifications

Dimensions Ø	45mm
Marking area W × H	40 × 20 (mm)

Cross-references	Page	Art.Nr.	Name	Type
	109	246002	Detector Base/Anal./500/200/SS B501	
	109	246015	Detector Base/Anal./500/200/SS B501DG	
	151	246025	Detector Base/Anal./Apo ASA-45681-210	
	107	246140	Detector Base/Conv./1000/SS ECO1000BR1000	
	105	246008	Detector Base/Conv./400/100/300/SS B401RM	
	149	246021	Detector Base/Conv./60/65/Apo GSA-45681-200	
	150	246042	Detector Base/Conv./ORBIS/Apo MB-00001	
	79	246070	Detector Base/FC600 FC600/BR	
	111	246012	Detector Base Filtrex/Anal./500/SS B524FTXE	
	79	246071	Detector Base with Diode/FC600 FC600/BRD	
	111	246018	Detector Heater Base/Anal./500/SS B524HTR	
	110	246016	Detector Relay Base/Anal./500/200/SS B524RTE	
	152	246037	Detector Relay Base/Anal./XP95/DISC/Apo ASR-45681-242	
	107	246141	Detector Relay Base/Conv./1000/SS ECO1000BREL24L	
	105	246100	Detector Relay Base/Conv./300/SS B324RL	
	150	246041	Detector Relay Base/Conv./ORBIS/Apo RB-10004	
	80	246072	Detector Relay Base/FC600 FC600/BREL	
	110	246013	Isolator Detector Base/Anal./500/200/SS B524IEFT-1	
	151	246036	Isolator Detector Base/Anal./Apo AISA-45681-321	

249011 Detector Label BME/BEZ

Label for marking an automatic fire detector with detector zone and detector number. It consists of a sturdy white plastic card to which an adhesive label can be stuck and signed. Direct marking of the plastic card is also an option.

Specifications

Marking area W × H	80 × 40 (mm)
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249040 Detector Label/Large BME/GR

Single inscribable adhesive label for marking fire detectors not directly visible (e.g., in inserted ceilings, inserted floors) or for marking other devices of the fire detection system (e.g., distribution boxes).

Specifications

Dimensions Ø 70mm
Marking area W × H 60 × 30 (mm)

249042 Detector Label/Small BME/KL

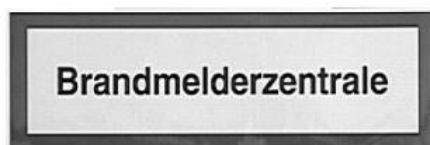
Single inscribable adhesive label for marking fire detectors not directly visible (e.g., in inserted ceilings, inserted floors) or for marking other devices of the fire detection system (e.g., distribution boxes).

Specifications

Dimensions Ø 45mm
Marking area W × H 40 × 20 (mm)

249041 Indicating Label/FDCP BME/BMZ

Standardised adhesive label for indication of the fire detection control panel. White sign with red border and black inscription 'Brandmelderzentrale', according to the standard DIN 4066.

Specifications

Dimensions L × W 298 × 104 (mm)

Cross-references	Page	Art.Nr.	Name	Type
	23	214056	BCnet Sectional Control Panel/OP. BC216-2/INT1	
	30	2149997	BCnet Sectional Control Panel/OP. BC216-2EPS	
	7	210122	Fire and Evacuation Panel BC016-2/INT1	
	6	210102	Fire Detection Control Panel BC016-1/INT1	
	1	210205	Fire Detection Control Panel BC06-1/INT1	
	3	210209	Fire Detection Control Panel BC06-2/INT1	
	12	214008	Fire Detection Control Panel BC216-1/INT1	
	27	214108	Fire Detection Control Panel BC216-1CE/INT1	
	16	214308	Fire Detection Control Panel BC216-1S/INT1	

24

Optical and Acoustic Devices, conventional

355001

Sounder/WM/12-24V/Red/Multitone/106dB MS1R

The multitone sounder MS1R is integrated in a red plastic housing and is suitable for indoor and outdoor mounting. Due to the built-in serial diode, the sounder can be directly connected to a line-monitored output with negative monitoring voltage.

Features

- ◆ 32 different freely programmable tones
- ◆ Large operating voltage range
- ◆ Adjustable sound level
- ◆ Suitable for surface mounting

Specifications

Operating voltage	10 to 32VDC
Current consumption at 24V	20 to 110mA, depending on the tone type
Sound level	max. 106dB
Ambient temperature	-25°C to +50°C
Protection class	IP54
Dimensions W × H × D	88 × 88 × 81 (mm)
Colour	flame red, RAL 3000
Weight	250g
Approval	VdS G28702

355014

Sounder/WM/12-24V/White/Multitone/106dB MS1W

The multitone sounder MS1W is integrated in a white plastic housing and is suitable for indoor and outdoor mounting. Due to the built-in serial diode, the sounder can be directly connected to a line-monitored output with negative monitoring voltage.

Features

- ◆ 32 different freely programmable tones
- ◆ Large operating voltage range
- ◆ Adjustable sound level
- ◆ Suitable for surface mounting

Specifications

Operating voltage	10 to 32VDC
Current consumption at 24V	20 to 110mA, depending on the tone type
Sound level	max. 106dB
Ambient temperature	-25°C to +50°C
Protection class	IP54
Dimensions W × H × D	88 × 88 × 81 (mm)
Colour	white, RAL 9003
Weight	250g
Approval	VdS G28702

355101 Sounder/WM/12-24V/Red/Multitone/103dB EMA1224B4R

The multitone sounder EMA1224B4R is integrated in red plastic housing for indoor and outdoor mounting. The base is not included in the delivery. Thanks to a built-in serial diode, the sounder can be connected directly to a line-monitored output with negative surveillance voltage.

Features

- ◆ 4 different tones
 - ◆ Continuous tone 800Hz
 - ◆ Alternating tone 800Hz/1000Hz
 - ◆ Slow whoop, DIN 33404 tone
 - ◆ Wide operating voltage range
 - ◆ Low power consumption
- ◆ Adjustable sound level
 - ◆ Suitable for surface mounting

Specifications

Operating voltage	15 to 33VDC
Current consumption at 24V	4.5 to 12mA
Sound level	87 to 103dB(A) at 1m distance
Tones	800Hz, 800/1000Hz, Slow Whoop, DIN 33404 tone
Ambient temperature	-30°C to +70°C
Dimensions W × H × D	120 × 90 × 60 (mm)
Colour	flame red, RAL 3000
Weight	155g
Approval	according to EN 54-3

Cross-references	Page	Art.Nr.	Name	Type
	251	359003	Base for Sounder & Strobe/IP44/Red/EMA ELPBR	
	251	359004	Base for Sounder & Strobe/IP55/Red/EMA ESBRS	
	251	359008	Base for Sounder & Strobe/IP66/Red/EMA ESBRS	

355102 Sounder/FB/12-24V/White/Multitone DBS1224B4W

The multitone sounder DBS1224B4W in a round white plastic housing for indoor mounting underneath a standard System Sensor or Apollo detector base, or independent of a base. An additional front lid DBSLID is needed if the sounder is used independently.



Thanks to a built-in serial diode, the sounder can be connected directly to a line-monitored output with negative surveillance voltage.

Features

- ◆ 4 different tones
- ◆ Continuous tone 800Hz
- ◆ Alternating tone 800Hz/1,000Hz
- ◆ Slow whoop, DIN 33404 tone
- ◆ Wide operating voltage range
- ◆ Low power consumption
- ◆ Adjustable sound level
- ◆ Suitable for surface mounting

Specifications

Operating voltage	9 to 33VDC
Current consumption at 24V	4.5 to 12mA
Sound level	86 to 93dB at 1m distance
Ambient temperature	-30°C to +70°C
Dimensions Ø × H	117 × 30 (mm)
Colour	cream, RAL 9001
Weight	150g
Approval	according to EN 54-3

Cross-references	Page	Art.Nr.	Name	Type
	252	359005	Lid for Sounder/DBS/Red DBSLIDR	
	252	359006	Lid for Sounder/DBS/White DBSLIDW	

356001 Strobe/WM/24V/Red/Orange MS2RA

The beacon MS2RA is mounted in a red plastic housing with an orange cap and is suitable for indoor and outdoor mounting.



Features

- ◆ Very high flash energy
- ◆ Suitable for surface mounting
- ◆ Coloured cap can be changed
- ◆ Long life span

Specifications

Operating voltage	24VDC
Current consumption at 24V	300mA (active)
Flash frequency	1Hz
Ambient temperature	-25°C to +40°C
Protection class	IP54
Dimensions W × H × D	88 × 88 × 81 (mm)
Weight	240g
Approval	VdS G28714

356650 Strobe/WM/24V/Red/Red MS2RR/24V

The Strobe MS2RR is accommodated in a red plastic housing with red cap and is prepared for indoor and outdoor mounting.



Features

- ◆ Very high flash energy
- ◆ Suitable for surface mounting
- ◆ Exchangeable cap for different colours
- ◆ Long lifespan

Specifications

Operating voltage	20 - 28VDC
Current consumption at 24V	300mA
Flash frequency	1Hz
Ambient temperature	-25°C to +40°C
Protection class	IP54
Dimensions W × H × D	88 × 88 × 81 (mm)
Colour	red, RAL 3000
Weight	240g
Approval	VdS G28714

356671 Strobe/24V/Orange BE/A/S/2.0/24VBMT

The strobe BE/A/S/2.0/24VBMT is mounted in a white plastic housing with an orange cap and is suitable for indoor and outdoor mounting.

Features

- ◆ Very high flash energy
- ◆ Low power consumption
- ◆ Suitable for surface mounting
- ◆ Easy to mount due to bayonet lock
- ◆ Exchangeable cap for different colours
- ◆ Long lifespan

Specifications

Operating voltage	20 - 30VDC
Current consumption at 24V	155mA
Flash frequency	1Hz
Ambient temperature	-20°C to +55°C
Protection class	IP54
Dimensions Ø × D	93 × 75 (mm)
Colour	yellow orange, RAL 2000
Weight	240g
Approval	VdS G296014

356672 Strobe/24V/Red BE/R/S/2.0/24VBMT

The strobe BE/R/S/2.0/24VBMT is mounted in a red plastic housing with a red cap and is suitable for indoor and outdoor mounting.

Features

- ◆ Very high flash energy
- ◆ Low power consumption
- ◆ Suitable for surface mounting
- ◆ Easy to mount due to bayonet lock
- ◆ Exchangeable cap for different colours
- ◆ Long lifespan

Specifications

Operating voltage	20 - 30VDC
Current consumption at 24V	155mA
Flash frequency	1Hz
Ambient temperature	-20°C to +55°C
Protection class	IP54
Dimensions Ø × D	93 × 75 (mm)
Colour	flame red, RAL 3000
Weight	240g
Approval	VdS G296014

351650 Sounder-Strobe/24V/Red/Red MS5RR

Strobe and sounder combined together on a housing frame, installed in a red plastic housing with red cap, for outdoor and indoor mounting.

Features

- ◆ Very high flash energy
- ◆ 32 different tones programmable
- ◆ Adjustable sound level
- ◆ Suitable for surface mounting
- ◆ Exchangeable cap for different colours
- ◆ Long lifespan

Specifications

Operating voltage	20 - 28VDC
Current consumption at 24V	350mA (active)

Flash frequency	1Hz
Sound level	max. 108dB
Ambient temperature	-25°C to +40°C
Protection class	IP54
Dimensions W × H × D	160 × 88 × 81 (mm)
Colour	flame red, RAL 3000
Weight	460g
Approval	according to EN 54-3

25

Optical and Acoustic Devices, ADM Series XP95/200

355133

Sounder/WB/XP95ISM/White/Alert 45681-277

The addressable loop sounder is installed in a round white plastic housing and is prepared for indoor surface mounting. The integrated detector base is suitable for accommodation of fire detectors Series XP95 and Discovery.



The sounder is actuated using Apollo/Discovery protocol and powered via the ADM loop. Depending on the parameter setup of the Fire Detection Control Panel Series BC216 and the system condition, the panel can activate the sounder with tone A or B. The unit contains a dual-isolator.

Features

- ◆ Tone A: alternating tone (581Hz for 1s, 870Hz for 1s)
Tone B: interrupted tone 870Hz (1s ON, 1s OFF)
- ◆ Low power consumption
- ◆ Sound level adjustable via DIL switch
- ◆ Simple address setting of inserted detector by code card in detector base
- ◆ At short circuit, the function of loop elements that are not affected by the short circuit is maintained

Specifications

Operating voltage	supply through the loop voltage
Current consumption from loop	typ. 200µA (quiescent) typ. 5mA (sounder on)
Sound level	55 - 75dB(A) or 75 - 91dB(A) / 1m distance
Ambient temperature	-20°C to +60°C
Protection class	IP21
Dimensions Ø × H	115 × 38 (mm)
Colour	white
Weight	140g
Approval	according to EN 54-3

Cross-references	Page	Art.Nr.	Name	Type
	26	214034	BCnet Sectional Control Panel/Extension BCE216-3LG	
	32	214234	Fire Detection Control Panel Module/LG BCM216-3ELG	
	253	359021	Lid for Detector Base Sounder/Red 45681-293	
	252	359020	Lid for Detector Base Sounder/White 45681-292	
	35	214021	Loop Interface LIF64-1	
	253	359022	Mounting Plate for Sounder/WB/XP95 38531-810	

355131

Sounder/WB/XP95ISM/White/Slow Whoop 45681-290

The addressable loop sounder is installed in a round white plastic housing and is prepared for indoor surface mounting. The integrated detector base is suitable for accommodation of fire detectors Series XP95 and Discovery.



The sounder is actuated using Apollo/Discovery protocol and powered via the ADM loop. Depending on the parameter setup of the Fire Detection Control Panel Series BC216 and the system condition, the panel can activate the sounder with tone A or B. The unit contains a dual-isolator.

Features

- ◆ Tone A: Slow-Whoop tone NEN 2575 (500 - 1200Hz over 3.5s, 1s pause)
Tone B: continuous tone 870Hz
- ◆ Low power consumption
- ◆ Sound level adjustable via DIL switch
- ◆ Simple address setting of inserted detector by code card in detector base
- ◆ At short circuit, the function of loop elements that are not affected by the short circuit is maintained

Specifications

Operating voltage	supply through the loop voltage
Current consumption from loop	typ. 200µA (quiescent) typ. 5mA (sounder on)
Sound level	55 - 75dB(A) or 75 - 91dB(A) / 1m distance
Ambient temperature	-20°C to +60°C
Protection class	IP21
Dimensions Ø × H	115 × 38 (mm)
Colour	white
Weight	140g
Approval	according to EN 54-3

Cross-references	Page	Art.Nr.	Name	Type
	26	214034	BCnet Sectional Control Panel/Extension BCE216-3LG	
	32	214234	Fire Detection Control Panel Module/LG BCM216-3ELG	
	253	359021	Lid for Detector Base Sounder/Red 45681-293	
	252	359020	Lid for Detector Base Sounder/White 45681-292	
	35	214021	Loop Interface LIF64-1	
	253	359022	Mounting Plate for Sounder/WB/XP95 38531-810	

355132**Sounder/WB/XP95ISM/White/DIN 45681-300**

The addressable loop sounder is installed in a round white plastic housing and is prepared for indoor surface mounting. The integrated detector base is suitable for accommodation of fire detectors Series XP95 and Discovery.



The sounder is actuated using Apollo/Discovery protocol and powered via the ADM loop. Depending on the parameter setup of the Fire Detection Control Panel Series BC216 and the system condition, the panel can activate the sounder with tone A or B. The unit contains a dual-isolator.

Features

- ◆ Tone A: DIN tone (DIN 33 404; 1200 - 500Hz over 1s)
Tone B: continuous tone 870Hz
- ◆ Low power consumption
- ◆ Sound level adjustable via DIL switch
- ◆ Simple address setting of inserted detector by code card in detector base
- ◆ At short circuit, the function of loop elements that are not affected by the short circuit is maintained

Specifications

Operating voltage	supply through the loop voltage
Current consumption from loop	typ. 200µA (quiescent) typ. 5mA (sounder on)
Sound level	55 - 75dB(A) or 75 - 91dB(A) / 1m distance
Ambient temperature	-20°C to +60°C
Protection class	IP21
Dimensions Ø × H	115 × 38 (mm)
Colour	white
Weight	140g
Approval	VdS G207009

Cross-references	Page	Art.Nr.	Name	Type
	26	214034	BCnet Sectional Control Panel/Extension BCE216-3LG	

32	214234	Fire Detection Control Panel Module/LG BCM216-3ELG
253	359021	Lid for Detector Base Sounder/Red 45681-293
252	359020	Lid for Detector Base Sounder/White 45681-292
35	214021	Loop Interface LIF64-1
253	359022	Mounting Plate for Sounder/WB/XP95 38531-810

355124 Sounder/WM/XP95/Red/Alert/100dB 55000-278

The addressable loop sounder 55000-278 is integrated in a red plastic housing and is designed for indoor wall mounting. The sounder base is included. The sounder is activated and supplied via the ADM loop using Apollo/Discovery protocol.



Features

- ◆ Alternating tone 510/610Hz
- ◆ Low power consumption
- ◆ Adjustable sound level

Specification

Operating voltage	supply through the loop voltage
Current consumption from loop	max. 1.1mA (sounder off) max. 4.5mA (sounder on)
Sound level	100dB(A) / 1m distance
Ambient temperature	-20°C to +60°C
Protection class	IP21
Dimensions Ø × D	106 × 95 (mm)
Colour	red
Weight	215g
Approval	according to EN 54-3

Cross-references	Page	Art.Nr.	Name	Type
	26	214034	BCnet Sectional Control Panel/Extension BCE216-3LG	
	32	214234	Fire Detection Control Panel Module/LG BCM216-3ELG	
	35	214021	Loop Interface LIF64-1	

355125 Sounder/WM/XP95/Red/Slow Whoop/100dB 55000-276

The addressable loop sounder 55000-276 is integrated in a red plastic housing and is designed for indoor wall mounting. The sounder base is included. The sounder is activated and supplied via the ADM loop using Apollo/Discovery protocol.



Features

- ◆ Tone A: Slow-Whoop tone NEN 2575 (500 - 1200Hz over 3.5s, 1s pause)
- ◆ Tone B: continuous tone 870Hz
- ◆ Low power consumption
- ◆ Adjustable sound level

Specifications

Operating voltage	Supply by loop voltage
Current consumption from loop	max. 1.2mA (sounder off) max. 5mA (sounder on)
Sound level	100dB(A) / 1m distance
Ambient temperature	-20°C to +60°C

Protection class	IP21
Dimensions Ø × D	106 × 95 (mm)
Colour	red
Weight	215g
Approval	according to EN 54-3

Cross-references	Page	Art.Nr.	Name	Type
	26	214034	BCnet Sectional Control Panel/Extension BCE216-3LG	
	32	214234	Fire Detection Control Panel Module/LG BCM216-3ELG	
	35	214021	Loop Interface LIF64-1	

355130**Sounder/WB/XP95RI/White/Alert 45681-276**

The base sounder 45681-276 is integrated in a round white plastic housing and is designed for indoor mounting. The integrated detector base accommodates automatic fire detectors Series XP95 or Discovery. The sounder is supplied via the ADM loop and activated by the remote indicator output of the detector.

Features

- ◆ Alternating tone 630/990Hz
- ◆ Signal sequence 0.5Hz
- ◆ Low power consumption

Specifications

Operating voltage	17 to 28VDC
Current consumption from loop	typ. 10µA (sounder off) max. 3mA (sounder on)
Sound level	85dB(A) / 1m distance
Ambient temperature	-20°C to +60°C
Protection class	IP23
Dimensions Ø × H	115 × 38 (mm)
Colour	white
Weight	140g
Approval	according to EN 54-3

Cross-references	Page	Art.Nr.	Name	Type
	26	214034	BCnet Sectional Control Panel/Extension BCE216-3LG	
	32	214234	Fire Detection Control Panel Module/LG BCM216-3ELG	
	35	214021	Loop Interface LIF64-1	
	253	359022	Mounting Plate for Sounder/WB/XP95 38531-810	

355134**Sounder-Strobe/WB/XP95ISM/White/Clear/Alert 45681-330**

The addressable sounder with integrated strobe 45681-330 is installed in a round white plastic housing. The unit is actuated using Apollo/Discovery protocol and powered via the ADM loop. The sounder is always activated together with the strobe. The integrated detector base is suitable for accommodation of fire detectors Series XP95 and Discovery. The unit is prepared for indoor surface mounting.



A dual-isolator is integrated in the componentry. At short circuit, it maintains the function of ADM elements that are not affected by the short circuit.

Depending on the parameter setup of the Fire Detection Control Panel Series BC216 and the system condition, the panel can activate the sounder with tone A or B. The address of the sounder and strobe as well as the sound level are set via the DIL switch.

Features

- ◆ Tone A: alternating tone (581Hz for 1s, 870Hz for 1s)
- ◆ Tone B: interrupted tone 870Hz (1s ON, 1s OFF)

- ◆ Sound level adjustable in two steps via DIL switch
- ◆ Simple address setting of inserted detector by code card in detector base
- ◆ Low power consumption
- ◆ Long lifespan of strobe due to the use of LEDs
- ◆ Integrated dual-isolator

Specifications

Operating voltage	supply through the loop voltage
Current consumption from loop	typ. 300µA (quiescent) max. 8mA (sounder and strobe on)
Sound level	55 - 75dB(A) or 75 - 91dB(A) / 1m distance
Flash frequency	1Hz
Ambient temperature	-20°C to +60°C
Protection class	IP21
Relative humidity	max. 95% (no condensation)
Dimensions Ø × H	115 × 38 (mm)
Colour	white
Weight	160g
Approval	according to EN 54-3

Cross-references	Page	Art.Nr.	Name	Type
	26	214034	BCnet Sectional Control Panel/Extension BCE216-3LG	
	32	214234	Fire Detection Control Panel Module/LG BCM216-3ELG	
	253	359021	Lid for Detector Base Sounder/Red 45681-293	
	252	359020	Lid for Detector Base Sounder/White 45681-292	
	35	214021	Loop Interface LIF64-1	
	253	359022	Mounting Plate for Sounder/WB/XP95 38531-810	

355135

Sounder-Strobe/WB/XP95ISM/White/Clear/Slow Whoop 45681-332

The addressable sounder with integrated strobe 45681-332 is installed in a round white plastic housing. The unit is actuated using Apollo/Discovery protocol and powered via the ADM loop. The sounder is always activated together with the strobe. The integrated detector base is suitable for accommodation of fire detectors Series XP95 and Discovery. The unit is prepared for indoor surface mounting.



A dual-isolator is integrated in the componentry. At short circuit, it maintains the function of ADM elements that are not affected by the short circuit.

Depending on the parameter setup of the Fire Detection Control Panel Series BC216 and the system condition, the panel can activate the sounder with tone A or B. The address of the sounder and strobe as well as the sound level are set via the DIL switch.

Features

- ◆ Tone A: Slow-Whoop tone NEN 2575 (500 - 1200Hz over 3,5s, 1s pause)
Tone B: continuous tone 870Hz
- ◆ Sound level adjustable in two steps via DIL switch
- ◆ Simple address setting of inserted detector by code card in detector base
- ◆ Low power consumption
- ◆ Long lifespan of strobe due to the use of LEDs
- ◆ Integrated dual-isolator

Specifications

Operating voltage	supply through the loop voltage
Current consumption from loop	typ. 300µA (quiescent) max. 8mA (sounder and strobe on)
Sound level	55 - 75dB(A) or 75 - 91dB(A) / 1m distance
Flash frequency	1Hz
Ambient temperature	-20°C to +60°C
Protection class	IP21
Relative humidity	max. 95% (no condensation)
Dimensions Ø × H	115 × 38 (mm)

Colour	white
Weight	160g
Approval	according to EN 54-3

Cross-references	Page	Art.Nr.	Name	Type
	26	214034	BCnet Sectional Control Panel/Extension BCE216-3LG	
	32	214234	Fire Detection Control Panel Module/LG BCM216-3ELG	
	253	359021	Lid for Detector Base Sounder/Red 45681-293	
	252	359020	Lid for Detector Base Sounder/White 45681-292	
	35	214021	Loop Interface LIF64-1	
	253	359022	Mounting Plate for Sounder/WB/XP95 38531-810	

355136**Sounder-Strobe/WB/XP95ISM/White/Clear/DIN 45681-334**

The addressable sounder with integrated strobe 45681-334 is installed in a round white plastic housing. The unit is actuated using Apollo/Discovery protocol and powered via the ADM loop. The sounder is always activated together with the strobe. The integrated detector base is suitable for accommodation of fire detectors Series XP95 and Discovery. The unit is prepared for indoor surface mounting.



A dual-isolator is integrated in the componentry. At short circuit, it maintains the function of ADM elements that are not affected by the short circuit.

Depending on the parameter setup of the Fire Detection Control Panel Series BC216 and the system condition, the panel can activate the sounder with tone A or B. The address of the sounder and strobe as well as the sound level are set via the DIL switch.

Features

- ◆ Tone A: DIN tone (DIN 33 404; 1200 - 500Hz over 1s)
- ◆ Tone B: continuous tone 870Hz
- ◆ Sound level adjustable in two steps via DIL switch
- ◆ Simple address setting of inserted detector by code card in detector base
- ◆ Low power consumption
- ◆ Long lifespan of strobe due to the use of LEDs
- ◆ Integrated dual-isolator

Specifications

Operating voltage	supply through the loop voltage
Current consumption from loop	typ. 300µA (quiescent) max. 8mA (sounder and strobe on)
Sound level	55 - 75dB(A) or 75 - 91dB(A) / 1m distance
Flash frequency	1Hz
Ambient temperature	-20°C to +60°C
Protection class	IP21
Relative humidity	max. 95% (no condensation)
Dimensions Ø × H	115 × 38 (mm)
Colour	white
Weight	160g
Approval	according to EN 54-3

Cross-references	Page	Art.Nr.	Name	Type
	26	214034	BCnet Sectional Control Panel/Extension BCE216-3LG	
	32	214234	Fire Detection Control Panel Module/LG BCM216-3ELG	
	253	359021	Lid for Detector Base Sounder/Red 45681-293	
	252	359020	Lid for Detector Base Sounder/White 45681-292	
	35	214021	Loop Interface LIF64-1	
	253	359022	Mounting Plate for Sounder/WB/XP95 38531-810	

355137**Sounder-Strobe/WM/XP95ISM/Red/Multitone/100dB 55000-293**

The addressable multitone sounder with integrated strobe 55000-293 is installed in a red plastic housing and is prepared for indoor surface mounting. The unit is actuated using Apollo/Discovery protocol and powered via the ADM loop. The sounder is always activated together with the strobe.



A dual-isolator is integrated in the sounder. In case of a short circuit on the loop, it maintains the function of ADM elements that are not affected by the short circuit. A short circuit on the loop is indicated via a yellow status LED.

Depending on the parameter setup of the Fire Detection Control Panel Series BC216 and the system condition, the panel can activate the sounder with tone A or B. The tone type of tones A and B is set via a DIL switch, with selection out of 3 combinations.

Features

- ◆ 3 different tone type combinations selectable via DIL switch
e.g., continuous tone 900Hz, DIN 33 404 tone 1200 - 500Hz, Slow Whoop tone 500 - 1200Hz
- ◆ Sound level 100dB
- ◆ Easy address setting via DIL switch
- ◆ Long lifespan of strobe due to the use of LEDs
- ◆ Integrated dual-isolator with yellow status LED indicator

Specifications

Operating voltage	supply through the loop voltage
Current consumption from loop	max. 1.2mA (quiescent) max. 9mA (sounder and strobe on)
Sound level	100dB(A) / 1m distance
Flash frequency	1Hz
Ambient temperature	-10°C to +55°C
Relative Humidity	max. 95% (no condensation)
Protection class	IP21
Dimensions Ø × D	106 × 95 (mm)
Colour	red
Weight	209g
Approval	according to EN 54-3

Cross-references	Page	Art.Nr.	Name	Type
	26	214034	BCnet Sectional Control Panel/Extension BCE216-3LG	
	32	214234	Fire Detection Control Panel Module/LG BCM216-3ELG	
	35	214021	Loop Interface LIF64-1	

355138**Sounder-Strobe/WM65/XP95ISM/Red/Multitone/100dB 55000-298**

The addressable multitone sounder with integrated strobe 55000-298 is installed in a red plastic housing and is prepared for outdoor surface mounting. The unit is actuated using Apollo/Discovery protocol and powered via the ADM loop. The sounder is always activated together with the strobe.



A dual-isolator is integrated in the sounder. In case of a short circuit on the loop, it maintains the function of ADM elements that are not affected by the short circuit. A short circuit on the loop is indicated via a yellow status LED.

Depending on the parameter setup of the Fire Detection Control Panel Series BC216 and the system condition, the panel can activate the sounder with tone A or B. The tone type of tones A and B is set via a DIL switch, with selection out of 3 combinations.

Features

- ◆ 3 different tone type combinations selectable via DIL switch
e.g., continuous tone 900Hz, DIN 33 404 tone 1200 - 500Hz, Slow Whoop tone 500 - 1200Hz
- ◆ Sound level 100dB
- ◆ Easy address setting via DIL switch
- ◆ Long lifespan of strobe due to the use of LEDs
- ◆ Integrated dual-isolator with yellow status LED indicator

Specifications

Operating voltage	supply through the loop voltage
Current consumption from loop	max. 1.2mA (quiescent) max. 9mA (sounder and strobe on)
Sound level	100dB(A) / 1m distance
Flash frequency	1Hz
Ambient temperature	-20°C to +70°C
Relative Humidity	max. 95% (no condensation)
Protection class	IP66
Dimensions Ø × D	110 × 113 (mm)
Colour	red
Weight	305g
Approval	according to EN 54-3

Cross-references	Page	Art.Nr.	Name	Type
	26	214034	BCnet Sectional Control Panel/Extension BCE216-3LG	
	32	214234	Fire Detection Control Panel Module/LG BCM216-3ELG	
	35	214021	Loop Interface LIF64-1	

356020**Strobe/FB/XP95/White/Red 55000-877**

The addressable loop-powered strobe 55000-877 with a red cap is integrated in a white plastic housing. It is triggered and supplied like a module via the ADM loop using Apollo/Discovery protocol. The strobe is designed to be inserted into a detector base Series XP95/Discovery and is suitable for indoor mounting.

Features

- ◆ Low power consumption
- ◆ Suitable for surface mounting
- ◆ Long life span due to use of LEDs

Specifications

Operating voltage	supply through the loop voltage
Current consumption	typ. 150µA (quiescent) max. 3mA (active)
Ambient temperature	-10°C to +60°C
Protection class	IP42
Dimensions Ø × H	100 × 52 (mm)
Colour	white / red
Weight	85g

Cross-references	Page	Art.Nr.	Name	Type
	26	214034	BCnet Sectional Control Panel/Extension BCE216-3LG	
	151	246025	Detector Base/Anal./Apo ASA-45681-210	
	152	246037	Detector Relay Base/Anal./XP95/DISC/Apo ASR-45681-242	
	32	214234	Fire Detection Control Panel Module/LG BCM216-3ELG	
	253	359023	Housing IP67 for Strobe/FB/XP95 29600-318	
	151	246036	Isolator Detector Base/Anal./Apo AISA-45681-321	
	35	214021	Loop Interface LIF64-1	

356022 Strobe/FB/XP95/White/Clear 55000-878

The addressable loop-powered strobe 55000-878 with a clear cap and red LEDs is integrated in a white plastic housing. It is triggered and supplied like a module via the ADM loop using Apollo/Discovery protocol. The strobe is designed to be inserted into a detector base and is suitable for indoor mounting.

Features

- ◆ Low power consumption
- ◆ Suitable for surface mounting
- ◆ Long life span due to use of LEDs

Specifications

Operating voltage	supply through the loop voltage
Current consumption	typ. 150µA (quiescent) max. 3mA (active)
Ambient temperature	-10°C to +60°C
Protection class	IP42
Dimensions Ø × H	100 × 52 (mm)
Colour	white / clear
Weight	85g

Cross-references	Page	Art.Nr.	Name	Type
	26	214034	BCnet Sectional Control Panel/Extension BCE216-3LG	
	151	246025	Detector Base/Anal./Apo ASA-45681-210	
	152	246037	Detector Relay Base/Anal./XP95/DISC/Apo ASR-45681-242	
	32	214234	Fire Detection Control Panel Module/LG BCM216-3ELG	
	253	359023	Housing IP67 for Strobe/FB/XP95 29600-318	
	151	246036	Isolator Detector Base/Anal./Apo AISA-45681-321	
	35	214021	Loop Interface LIF64-1	

356023 Strobe/FB/XP95/White/Orange 55000-879

The addressable loop-powered strobe 55000-879 with an orange cap is integrated in a white plastic housing. It is triggered and supplied like a module via the ADM loop using Apollo/Discovery protocol. The strobe is designed to be inserted into a detector base and is suitable for indoor mounting.

Features

- ◆ Low power consumption
- ◆ Suitable for surface mounting
- ◆ Long life span due to use of LEDs

Specifications

Operating voltage	supply through the loop voltage
Current consumption	typ. 150µA (quiescent) max. 3mA (active)
Ambient temperature	-10°C to +60°C
Protection class	IP42
Dimensions Ø × H	100 × 52 (mm)
Colour	white / orange
Weight	85g

Cross-references	Page	Art.Nr.	Name	Type
	26	214034	BCnet Sectional Control Panel/Extension BCE216-3LG	
	151	246025	Detector Base/Anal./Apo ASA-45681-210	
	152	246037	Detector Relay Base/Anal./XP95/DISC/Apo ASR-45681-242	
	32	214234	Fire Detection Control Panel Module/LG BCM216-3ELG	
	253	359023	Housing IP67 for Strobe/FB/XP95 29600-318	
	151	246036	Isolator Detector Base/Anal./Apo AISA-45681-321	
	35	214021	Loop Interface LIF64-1	

355160 Sounder/WM/200/Red/Multitone/100dB WMSOU-RR-P01

The addressable multitone sounder is accommodated in a red plastic housing and is prepared for outdoor and indoor mounting. The unit is mounted on a base for signalling devices (not provided). The sounder is actuated as a module using System Sensor/200 protocol and is powered via the ADM loop.



Depending on the parameter setup of the Fire Detection Control Panel Series BC216 and the system condition, the panel can activate the sounder with tone A or B. The tone type of tones A and B is set via a DIL switch, with selection out of 32 combinations. The sound level is adjustable in 3 steps, but depends also on the chosen tone type. The power consumption is dependent on the tone type and the adjusted sound level.

Features

- ◆ 32 different tone type combinations selectable via DIL switch (e.g., continuous tone 660Hz, DIN 33 404 tone 1200 - 500Hz, Slow Whoop tone 500 - 1200Hz)
- ◆ Sound level adjustable in 3 steps (low-medium-high)
- ◆ Low power consumption
- ◆ 2 decadic rotary switches for setting the address from 01 to 99
- ◆ Different base versions available

Specifications

Operating voltage	supply through the loop voltage
Current consumption from loop	typ. 450µA (sounder off) max. 2.5mA (low sound level) max. 4.4mA (medium sound level) max. 7.1mA (high sound level)
Sound level	typ. 82dB(A) / 1m distance (low sound level) typ. 90dB(A) / 1m distance (medium sound level) typ. 96dB(A) / 1m distance (high sound level) max. 100dB(A) / 1m distance (high sound level)

Examples (at 24V):

Continuous tone 660Hz	typ. 4.6mA at 98dB(A) / 1m distance
DIN tone 1200-500Hz	typ. 6.5mA at 100dB(A) / 1m distance
Slow Whoop tone 500-1200Hz	typ. 6.6mA at 96dB(A) / 1m distance
Ambient temperature	-25°C to +70°C
Relative humidity	10 - 96% (no condensation)
Dimensions Ø × D	115 × 68 (mm) (incl. Base LPBW)
Colour	red
Weight	204g
Approval	VdS G206072

Cross-references	Page	Art.Nr.	Name	Type
	254	359040	Base Sounder & Strobe/IP24/White LPBW	
	255	359041	Base Sounder & Strobe/IP44/Red SDBR	
	256	359042	Base Sounder & Strobe/IP65/Red WDBR	
	26	214034	BCnet Sectional Control Panel/Extension BCE216-3LG	
	32	214234	Fire Detection Control Panel Module/LG BCM216-3ELG	
	35	214021	Loop Interface LIF64-1	

355161 Sounder/WM/200ISM/Red/Multitone/100dB WMSOU-RR-P02

The addressable multitone sounder is accommodated in a red plastic housing and is prepared for outdoor and indoor mounting. The unit is mounted on a base for signalling devices (not provided). The sounder is actuated as a module using System Sensor/200 protocol and is powered via the ADM loop.



A dual-isolator is integrated in the sounder. At short circuit, it maintains the function of ADM elements that are not affected by the short circuit.

Depending on the parameter setup of the Fire Detection Control Panel Series BC216 and the system condition, the panel can activate the sounder with tone A or B. The tone type of tones A and B is set via a DIL switch, with selection out of 32 combinations. The sound level is adjustable in 3 steps, but depends also on the chosen tone type. The power consumption is dependent on the tone type and the adjusted sound level.

Features

- ◆ 32 different tone type combinations selectable via DIL switch (e.g., continuous tone 660Hz, DIN 33 404 tone 1200 - 500Hz, Slow Whoop tone 500 - 1200Hz)
- ◆ Sound level adjustable in 3 steps (low-medium-high)
- ◆ Low power consumption
- ◆ Integrated dual-isolator
- ◆ 2 decadic rotary switches for setting the address from 01 to 99
- ◆ Different base versions available

Specifications

Operating voltage	supply through the loop voltage
Current consumption from loop	typ. 450µA (sounder off) max. 2.7mA (low sound level) max. 4.6mA (medium sound level) max. 7.3mA (high sound level)
Sound level	typ. 82dB(A) / 1m distance (low sound level) typ. 90dB(A) / 1m distance (medium sound level) typ. 96dB(A) / 1m distance (high sound level) max. 100dB(A) / 1m distance (high sound level)

Examples (at 24V):

Continuous tone 660Hz	typ. 4.8mA at 98dB(A) / 1m distance
DIN tone 1200-500Hz	typ. 6.7mA at 100dB(A) / 1m distance
Slow Whoop tone 500-1200Hz	typ. 6.8mA at 96dB(A) / 1m distance
Ambient temperature	-25°C to +70°C
Relative humidity	10 - 96% (no condensation)
Dimensions Ø × D	115 × 68 (mm) (incl. Base LPBW)
Colour	red
Weight	204g
Approval	VdS G206076

Cross-references	Page	Art.Nr.	Name	Type
	254	359040	Base Sounder & Strobe/IP24/White LPBW	
	255	359041	Base Sounder & Strobe/IP44/Red SDBR	
	256	359042	Base Sounder & Strobe/IP65/Red WDBR	
	26	214034	BCnet Sectional Control Panel/Extension BCE216-3LG	
	32	214234	Fire Detection Control Panel Module/LG BCM216-3ELG	
	35	214021	Loop Interface LIF64-1	

355162

Sounder-Strobe/WM/200/Red/Multitone/100dB WMSST-RR-P01

The addressable multitone sounder with strobe is accommodated in a red plastic housing and is prepared for outdoor and indoor mounting. The unit is mounted on a base for signalling devices (not provided). The sounder is actuated as a module using System Sensor/200 protocol and is powered via the ADM loop. The sounder is always activated together with the strobe.



Depending on the parameter setup of the Fire Detection Control Panel Series BC216 and the system condition, the panel can activate the sounder with tone A or B. The tone type of tones A and B is set via a DIL switch, with selection out of 32 combinations. The sound level is adjustable in 3 steps, but depends also on the chosen tone type. The power consumption is dependent on the tone type and the adjusted sound level.

Features

- ◆ 32 different tone type combinations selectable via DIL switch (e.g., continuous tone 660Hz, DIN 33 404 tone 1200 - 500Hz, Slow Whoop tone 500 - 1200Hz)
- ◆ Sound level adjustable in 3 steps (low-medium-high)
- ◆ Long lifespan of strobe due to the use of LEDs

- ◆ Low power consumption
- ◆ 2 decadic rotary switches for setting the address from 01 to 99
- ◆ Different base versions available

Specifications

Operating voltage	supply through the loop voltage
Current consumption from loop	typ. 450µA (sounder and strobe off) max. 4.7mA (low sound level) max. 6.6mA (medium sound level) max. 9.3mA (high sound level)
Sound level	typ. 82dB(A) / 1m distance (low sound level) typ. 90dB(A) / 1m distance (medium sound level) typ. 96dB(A) / 1m distance (high sound level) max. 100dB(A) / 1m distance (high sound level)

Examples (at 24V):

Continuous tone 660Hz	typ. 6.8mA at 98dB(A) / 1m distance
DIN tone 1200-500Hz	typ. 8.8mA at 100dB(A) / 1m distance
Slow Whoop tone 500-1200Hz	typ. 9.3mA at 96dB(A) / 1m distance
Flash frequency	1Hz
Ambient temperature	-25°C to +70°C
Relative Humidity	10 - 96% (no condensation)
Dimensions Ø × D	115 × 68 (mm) (incl. Base LPBW)
Colour	red
Weight	204g
Approval	VdS G206072

Cross-references	Page	Art.Nr.	Name	Type
	254	359040	Base Sounder & Strobe/IP24/White LPBW	
	255	359041	Base Sounder & Strobe/IP44/Red SDBR	
	256	359042	Base Sounder & Strobe/IP65/Red WDBR	
	26	214034	BCnet Sectional Control Panel/Extension BCE216-3LG	
	32	214234	Fire Detection Control Panel Module/LG BCM216-3ELG	
	35	214021	Loop Interface LIF64-1	

355163

Sounder-Strobe/WM/200ISM/Red/Multitone/100dB WMSST-RR-P02

The addressable multitone sounder with strobe is accommodated in a red plastic housing and is prepared for outdoor and indoor mounting. The unit is mounted on a base for signalling devices (not provided). The sounder is actuated as a module using System Sensor/200 protocol and is powered via the ADM loop. The sounder is always activated together with the strobe.



A dual-isolator is integrated in the componentry. At short circuit, it maintains the function of ADM elements that are not affected by the short circuit.

Depending on the parameter setup of the Fire Detection Control Panel Series BC216 and the system condition, the panel can activate the sounder with tone A or B. The tone type of tones A and B is set via a DIL switch, with selection out of 32 combinations. The sound level is adjustable in 3 steps, but depends also on the chosen tone type. The power consumption is dependent on the tone type and the adjusted sound level.

Features

- ◆ 32 different tone type combinations selectable via DIL switch (e.g., continuous tone 660Hz, DIN 33 404 tone 1200 - 500Hz, Slow Whoop tone 500 - 1200Hz)
- ◆ Sound level adjustable in 3 steps (low-medium-high)
- ◆ Low power consumption
- ◆ Long lifespan of strobe due to the use of LEDs
- ◆ Integrated dual-isolator
- ◆ 2 decadic rotary switches for setting the address from 01 to 99
- ◆ Different base versions available

Specifications

Operating voltage	supply through the loop voltage
Current consumption from loop	typ. 450µA (sounder and strobe off) max. 4.9mA (low sound level) max. 6.8mA (medium sound level) max. 9.5mA (high sound level)
Sound level	typ. 82dB(A) / 1m distance (low sound level) typ. 90dB(A) / 1m distance (medium sound level) typ. 96dB(A) / 1m distance (high sound level) max. 100dB(A) / 1m distance (high sound level)
Examples (at 24V):	
Continuous tone 660Hz	typ. 7.0mA at 98dB(A) / 1m distance
DIN tone 1200-500Hz	typ. 9.0mA at 100dB(A) / 1m distance
Slow Whoop tone 500-1200Hz	typ. 9.5mA at 96dB(A) / 1m distance
Flash frequency	1Hz
Ambient temperature	-25°C to +70°C
Relative humidity	10 - 96% (no condensation)
Dimensions Ø × D	115 × 68 (mm) (incl. Base LPBW)
Colour	red
Weight	204g
Approval	VdS G206076

Cross-references	Page	Art.Nr.	Name	Type
	254	359040	Base Sounder & Strobe/IP24/White LPBW	
	255	359041	Base Sounder & Strobe/IP44/Red SDBR	
	256	359042	Base Sounder & Strobe/IP65/Red WDBR	
	26	214034	BCnet Sectional Control Panel/Extension BCE216-3LG	
	32	214234	Fire Detection Control Panel Module/LG BCM216-3ELG	
	35	214021	Loop Interface LIF64-1	

355164**Sounder/WB/200/White/Multitone IBSOU-DD-P01**

The addressable sounder is accommodated in a round white plastic housing and is prepared for indoor surface mounting. The integrated base is suitable for accommodation of fire detectors Series 200. The unit is mounted on a base for signalling devices (not provided). The sounder is actuated as a module using System Sensor/200 protocol and is powered via the ADM loop.



Depending on the parameter setup of the Fire Detection Control Panel Series BC216 and the system condition, the panel can activate the sounder with tone A or B. The tone type of tones A and B is set via a DIL switch, with selection out of 32 combinations. The sound level is adjustable in 3 steps, but depends also on the chosen tone type. The power consumption is dependent on the tone type and the adjusted sound level.

Features

- ♦ 32 different tone type combinations selectable via DIL switch (e.g., continuous tone 660Hz, DIN 33 404 tone 1200 - 500Hz, Slow Whoop tone 500 - 1200Hz)
- ♦ Sound level adjustable in 3 steps (low-medium-high)
- ♦ Low power consumption
- ♦ Integrated detector base
- ♦ 2 decadic rotary switches for setting the address from 01 to 99
- ♦ Different base versions available

Specifications

Operating voltage	supply through the loop voltage
Current consumption from loop	typ. 450µA (sounder off) max. 1.9mA (low sound level) max. 3.1mA (medium sound level) max. 6.8mA (high sound level)
Sound level (detector mounted)	typ. 70dB(A) / 1m distance (low sound level) typ. 79dB(A) / 1m distance (medium sound level)

	typ. 87dB(A) / 1m distance (high sound level)
	max. 95dB(A) / 1m distance (high sound level)
Examples (at 24V):	
Continuous tone 660Hz	typ. 4.2mA at 90dB(A) / 1m distance
DIN tone 1200-500Hz	typ. 5.4mA at 89dB(A) / 1m distance
Slow Whoop tone 500-1200Hz	typ. 5.5mA at 86dB(A) / 1m distance
Ambient temperature	-25°C to +70°C
Relative Humidity	10 - 96% (no condensation)
Dimensions Ø × H	112 × 42 (mm) (without detector, incl. Base LPBW)
Colour	cream, RAL 9001
Weight	134g
Approval	VdS G206072

Cross-references	Page	Art.Nr.	Name	Type
	254	359040	Base Sounder & Strobe/IP24/White LPBW	
	254	359043	Base Sounder & Strobe/IP44/White SDBW	
	255	359044	Base Sounder & Strobe/IP65/White WDBW	
	26	214034	BCnet Sectional Control Panel/Extension BCE216-3LG	
	32	214234	Fire Detection Control Panel Module/LG BCM216-3ELG	
	35	214021	Loop Interface LIF64-1	

355165**Sounder/WB/200ISM/White/Multitone IBSOU-DD-P02**

The addressable sounder is accommodated in a round white plastic housing and is prepared for indoor surface mounting. The integrated base is suitable for accommodation of fire detectors Series 200. The unit is mounted on a base for signalling devices (not provided). The sounder is actuated as a module using System Sensor/200 protocol and is powered via the ADM loop.



A dual-isolator is integrated in the sounder. At short circuit, it maintains the function of ADM elements that are not affected by the short circuit.

Depending on the parameter setup of the Fire Detection Control Panel Series BC216 and the system condition, the panel can activate the sounder with tone A or B. The tone type of tones A and

B is set via a DIL switch, with selection out of 32 combinations. The sound level is adjustable in 3 steps, but depends also on the chosen tone type. The power consumption is dependent on the tone type and the adjusted sound level.

Features

- ◆ 32 different tone type combinations selectable via DIL switch (e.g., continuous tone 660Hz, DIN 33 404 tone 1200 - 500Hz, Slow Whoop tone 500 - 1200Hz)
- ◆ Sound level adjustable in 3 steps (low-medium-high)
- ◆ Low power consumption
- ◆ Integrated dual-isolator
- ◆ Integrated detector base
- ◆ 2 decadic rotary switches for setting the sounder address from 01 to 99
- ◆ Different base versions available

Specifications

Operating voltage	supply through the loop voltage
Current consumption from loop	typ. 450µA (sounder off) max. 2.1mA (low sound level) max. 3.3mA (medium sound level) max. 7.0mA (high sound level)
Sound level (detector mounted)	typ. 70dB(A) / 1m distance (low sound level) typ. 79dB(A) / 1m distance (medium sound level) typ. 87dB(A) / 1m distance (high sound level) max. 95dB(A) / 1m distance (high sound level)

Examples (at 24V):

Continuous tone 660Hz	typ. 4.4mA at 90dB(A) / 1m distance
DIN tone 1200-500Hz	typ. 5.6mA at 89dB(A) / 1m distance
Slow Whoop tone 500-1200Hz	typ. 5.7mA at 86dB(A) / 1m distance

Ambient temperature	-25°C to +70°C
Relative Humidity	10 - 96% (no condensation)
Dimensions Ø × H	112 × 42 (mm) (without detector, incl. Base LPBW)
Colour	cream, RAL 9001
Weight	134g
Approval	VdS G206076

Cross-references	Page	Art.Nr.	Name	Type
	254	359040	Base Sounder & Strobe/IP24/White LPBW	
	254	359043	Base Sounder & Strobe/IP44/White SDBW	
	255	359044	Base Sounder & Strobe/IP65/White WDBW	
	26	214034	BCnet Sectional Control Panel/Extension BCE216-3LG	
	32	214234	Fire Detection Control Panel Module/LG BCM216-3ELG	
	35	214021	Loop Interface LIF64-1	

355166**Sounder-Strobe/WB/200/White/Red/Multitone IBSST-DR-P01**

The addressable sounder with strobe (red cap) is accommodated in a round white plastic housing and is prepared for indoor surface mounting. The integrated base is suitable for accommodation of fire detectors Series 200. The unit is mounted on a base for signalling devices (not provided). The componentry is actuated using System Sensor/200 protocol and is powered via the ADM loop. The sounder is always activated together with the strobe.



Depending on the parameter setup of the Fire Detection Control Panel Series BC216 and the system condition, the panel can activate the sounder with tone A or B. The tone type of tones A and B is set via a DIL switch, with selection out of 32 combinations. The sound level is adjustable in 3 steps, but depends also on the chosen tone type. The power consumption is dependent on the tone type and the adjusted sound level.

Features

- ♦ 32 different tone type combinations selectable via DIL switch (e.g., continuous tone 660Hz, DIN 33 404 tone 1200 - 500Hz, Slow Whoop tone 500 - 1200Hz)
- ♦ Sound level adjustable in 3 steps (low-medium-high)
- ♦ Long lifespan of strobe due to the use of LEDs
- ♦ Low power consumption
- ♦ Integrated detector base
- ♦ 2 decadic rotary switches for setting the sounder/strobe address from 01 to 99
- ♦ Different base versions available

Specifications

Operating voltage	supply through the loop voltage
Current consumption from loop	typ. 450µA (sounder and strobe off) max. 4.1mA (low sound level) max. 5.4mA (medium sound level) max. 9.0mA (high sound level)
Sound level (detector mounted)	typ. 70dB(A) / 1m distance (low sound level) typ. 79dB(A) / 1m distance (medium sound level) typ. 87dB(A) / 1m distance (high sound level) max. 95dB(A) / 1m distance (high sound level)
Examples (at 24V):	
Continuous tone 660Hz	typ. 6.4mA at 90dB(A) / 1m distance
DIN tone 1200-500Hz	typ. 7.6mA at 89dB(A) / 1m distance
Slow Whoop tone 500-1200Hz	typ. 7.7mA at 86dB(A) / 1m distance
Flash frequency	1Hz
Ambient temperature	-25°C to +70°C
Relative humidity	10 - 96% (no condensation)
Dimensions Ø × H	112 × 42 (mm) (without detector, incl. Base LPBW)
Colour	red / cream, RAL 9001
Weight	136g
Approval	VdS G206072

Cross-references	Page	Art.Nr.	Name	Type
	254	359040	Base Sounder & Strobe/IP24/White LPBW	
	254	359043	Base Sounder & Strobe/IP44/White SDBW	
	255	359044	Base Sounder & Strobe/IP65/White WDBW	
	26	214034	BCnet Sectional Control Panel/Extension BCE216-3LG	
	32	214234	Fire Detection Control Panel Module/LG BCM216-3ELG	
	35	214021	Loop Interface LIF64-1	

355167

Sounder-Strobe/WB/200ISM/White/Red/Multitone IBSST-DR-P02

The addressable sounder with strobe (red cap) is accommodated in a round white plastic housing and is prepared for indoor surface mounting. The integrated base is suitable for accommodation of fire detectors Series 200. The unit is mounted on a base for signalling devices (not provided). The componentry is actuated using System Sensor/200 protocol and is powered via the ADM loop. The sounder is always activated together with the strobe.



A dual-isolator is integrated in the componentry. At short circuit, it maintains the function of ADM elements that are not affected by the short circuit.

Depending on the parameter setup of the Fire Detection Control Panel Series BC216 and the system condition, the panel can activate the sounder with tone A or B. The tone type of tones A and B is set via a DIL switch, with selection out of 32 combinations. The sound level is adjustable in 3 steps, but depends also on the chosen tone type. The power consumption is dependent on the tone type and the adjusted sound level.

Features

- ◆ 32 different tone type combinations selectable via DIL switch (e.g., continuous tone 660Hz, DIN 33 404 tone 1200 - 500Hz, Slow Whoop tone 500 - 1200Hz)
- ◆ Sound level adjustable in 3 steps (low-medium-high)
- ◆ Low power consumption
- ◆ Long lifespan of strobe due to the use of LEDs
- ◆ Integrated dual-isolator
- ◆ Integrated detector base
- ◆ 2 decadic rotary switches for setting the sounder/strobe address from 01 to 99
- ◆ Different base versions available

Specifications

Operating voltage	supply through the loop voltage
Current consumption from loop	typ. 450µA (sounder and strobe off) max. 4.3mA (low sound level) max. 5.6mA (medium sound level) max. 9.2mA (high sound level)
Sound level (detector mounted)	typ. 70dB(A) / 1m distance (low sound level) typ. 79dB(A) / 1m distance (medium sound level) typ. 87dB(A) / 1m distance (high sound level) max. 95dB(A) / 1m distance (high sound level)
Examples (at 24V):	
Continuous tone 660Hz	typ. 6.6mA at 90dB(A) / 1m distance
DIN tone 1200-500Hz	typ. 7.8mA at 89dB(A) / 1m distance
Slow Whoop tone 500-1200Hz	typ. 7.9mA at 86dB(A) / 1m distance
Flash frequency	1Hz
Ambient temperature	-25°C to +70°C
Relative humidity	10 - 96% (no condensation)
Dimensions Ø × H	112 × 42 (mm) (without detector, incl. Base LPBW)
Colour	red / cream, RAL 9001
Weight	136g
Approval	VdS G206076

Cross-references	Page	Art.Nr.	Name	Type
	254	359040	Base Sounder & Strobe/IP24/White LPBW	
	254	359043	Base Sounder & Strobe/IP44/White SDBW	
	255	359044	Base Sounder & Strobe/IP65/White WDBW	

26	214034	BCnet Sectional Control Panel/Extension BCE216-3LG
32	214234	Fire Detection Control Panel Module/LG BCM216-3ELG
35	214021	Loop Interface LIF64-1

356140 Strobe/WM/200/Red WMSTR-WR-P01

The addressable strobe is accommodated in a red plastic housing and is prepared for outdoor and indoor mounting. The unit is mounted on a base for signalling devices (not provided). The strobe is actuated as a module using System Sensor/200 protocol and is powered via the ADM loop.



Features

- ◆ Long lifespan of strobe due to the use of LEDs
- ◆ Low power consumption
- ◆ 2 decadic rotary switches for setting the address from 01 to 99
- ◆ Different base versions available

Specifications

Operating voltage	supply through the loop voltage
Current consumption from loop	typ. 450µA (strobe off) max. 3.8mA (strobe active)
Flash frequency	1Hz
Ambient temperature	-25°C to +70°C
Relative humidity	10 - 96% (no condensation)
Dimensions Ø × D	112 × 37 (mm) (incl. Base LPBW)
Colour	red
Weight	80g

Cross-references	Page	Art.Nr.	Name	Type
	254	359040	Base Sounder & Strobe/IP24/White LPBW	
	255	359041	Base Sounder & Strobe/IP44/Red SDBR	
	256	359042	Base Sounder & Strobe/IP65/Red WDBR	
	26	214034	BCnet Sectional Control Panel/Extension BCE216-3LG	
	32	214234	Fire Detection Control Panel Module/LG BCM216-3ELG	
	35	214021	Loop Interface LIF64-1	

356141 Strobe/WM/200ISM/Red WMSTR-WR-P02

The addressable strobe is accommodated in a red plastic housing and is prepared for outdoor and indoor mounting. The unit is mounted on a base for signalling devices (not provided). The strobe is actuated as a module using System Sensor/200 protocol and is powered via the ADM loop.



A dual-isolator is integrated in the strobe. At short circuit, it maintains the function of ADM elements that are not affected by the short circuit.

Features

- ◆ Long lifespan of strobe due to the use of LEDs
- ◆ Integrated dual-isolator
- ◆ Low power consumption
- ◆ 2 decadic rotary switches for setting the address from 01 to 99
- ◆ Different base versions available

Specifications

Operating voltage	supply through the loop voltage
Current consumption from loop	typ. 450µA (strobe off) max. 4.0mA (strobe active)
Flash frequency	1Hz
Ambient temperature	-25°C to +70°C
Relative humidity	10 - 96% (no condensation)
Dimensions Ø × D	112 × 37 (mm) (incl. Base LPBW)

Colour red
Weight 80g

Cross-references	Page	Art.Nr.	Name	Type
	254	359040	Base Sounder & Strobe/IP24/White LPBW	
	255	359041	Base Sounder & Strobe/IP44/Red SDBR	
	256	359042	Base Sounder & Strobe/IP65/Red WDBR	
	26	214034	BCnet Sectional Control Panel/Extension BCE216-3LG	
	32	214234	Fire Detection Control Panel Module/LG BCM216-3ELG	
	35	214021	Loop Interface LIF64-1	

26

Accessories for Optical and Acoustic Devices

359003

Base for Sounder & Strobe/IP44/Red/EMA ELPBR

The base ELPBR for Series EMA sounders and strobes is used for surface mounting and flush-mount or surface-mount cabling.

Features

- ◆ All-side cable entry possible
- ◆ Additional terminal on base floor

Specifications

Ambient temperature	-30°C to +70°C
Protection class	IP44
Dimensions W × H × D	120 × 90 × 22 (mm)
Colour	red
Weight	40g

Cross-references	Page	Art.Nr.	Name	Type
	229	355101	Sounder/WM/12-24V/Red/Multitone/103dB EMA1224B4R	

359004

Base for Sounder & Strobe/IP55/Red/EMA ESBR

The base ESBR for Series EMA sounders and strobes is used for surface mounting and flush-mount or surface-mount cabling.

Features

- ◆ All-side cable entry possible, prepared for optional PG screw connections
- ◆ Additional terminal on base floor
- ◆ Suitable for indoor and outdoor mounting

Specifications

Ambient temperature	-30°C to +70°C
Protection class	IP54
Dimensions W × H × D	120 × 90 × 35 (mm)
Colour	red
Weight	70g

Cross-references	Page	Art.Nr.	Name	Type
	229	355101	Sounder/WM/12-24V/Red/Multitone/103dB EMA1224B4R	

359008

Base for Sounder & Strobe/IP66/Red/EMA ESBRs

The base ESBRs for surface mounting of Series EMA sounders and strobes, suitable for flush-mount or surface-mount cabling.

Features

- ◆ All-side cable entry possible
- ◆ Additional terminal on base floor
- ◆ Suitable for indoor and outdoor mounting

Specifications

Ambient temperature	-30°C to +70°C
Protection class	IP66
Dimensions W × H × D	120 × 90 × 36 (mm)
Colour	red
Weight	72g

Cross-references	Page	Art.Nr.	Name	Type
	229	355101	Sounder/WM/12-24V/Red/Multitone/103dB	EMA1224B4R

359005 Lid for Sounder/DBS/Red DBSLIDR

The red cover plate DBSLIDR is used for mounting a sounder Series DBS without detector base.

Specifications

Dimensions Ø × H	103 × 2 (mm)
Colour	flame red, RAL 3000

Cross-references	Page	Art.Nr.	Name	Type
	229	355102	Sounder/FB/12-24V/White/Multitone	DBS1224B4W

359006 Lid for Sounder/DBS/White DBSLIDW

The white cover plate DBSLIDW is used for mounting a sounder Series DBS without detector base.

Specifications

Dimensions Ø × H	103 × 2 (mm)
Colour	cream, RAL 9001

Cross-references	Page	Art.Nr.	Name	Type
	229	355102	Sounder/FB/12-24V/White/Multitone	DBS1224B4W

359020 Lid for Detector Base Sounder/White 45681-292

White plate for covering an addressable detector base sounder Series XP95, if no detector is inserted.

Specifications

Dimensions Ø × H	100 × 9 (mm)
Weight	20g
Colour	white

Cross-references	Page	Art.Nr.	Name	Type
	236	355134	Sounder-Strobe/WB/XP95ISM/White/Clear/Alert 45681-330	
	238	355136	Sounder-Strobe/WB/XP95ISM/White/Clear/DIN 45681-334	
	237	355135	Sounder-Strobe/WB/XP95ISM/White/Clear/Slow Whoop 45681-332	
	233	355133	Sounder/WB/XP95ISM/White/Alert 45681-277	
	234	355132	Sounder/WB/XP95ISM/White/DIN 45681-300	
	233	355131	Sounder/WB/XP95ISM/White/Slow Whoop 45681-290	

359021 Lid for Detector Base Sounder/Red 45681-293

Red plate for covering an addressable detector base sounder Series XP95, if no detector is inserted.

Specifications

Dimensions Ø × H	100 × 9 (mm)
Weight	20g
Colour	red

Cross-references	Page	Art.Nr.	Name	Type
	236	355134	Sounder-Strobe/WB/XP95ISM/White/Clear/Alert 45681-330	
	238	355136	Sounder-Strobe/WB/XP95ISM/White/Clear/DIN 45681-334	
	237	355135	Sounder-Strobe/WB/XP95ISM/White/Clear/Slow Whoop 45681-332	
	233	355133	Sounder/WB/XP95ISM/White/Alert 45681-277	
	234	355132	Sounder/WB/XP95ISM/White/DIN 45681-300	
	233	355131	Sounder/WB/XP95ISM/White/Slow Whoop 45681-290	

359022 Mounting Plate for Sounder/WB/XP95 38531-810

White mounting plate for surface-mount cabling of an addressable detector base sounder Series XP95.

Specifications

Dimensions Ø × H	116 × 11 (mm)
Weight	28g
Colour	white

Cross-references	Page	Art.Nr.	Name	Type
	236	355134	Sounder-Strobe/WB/XP95ISM/White/Clear/Alert 45681-330	
	238	355136	Sounder-Strobe/WB/XP95ISM/White/Clear/DIN 45681-334	
	237	355135	Sounder-Strobe/WB/XP95ISM/White/Clear/Slow Whoop 45681-332	
	233	355133	Sounder/WB/XP95ISM/White/Alert 45681-277	
	234	355132	Sounder/WB/XP95ISM/White/DIN 45681-300	
	233	355131	Sounder/WB/XP95ISM/White/Slow Whoop 45681-290	
	236	355130	Sounder/WB/XP95RI/White/Alert 45681-276	

359023 Housing IP67 for Strobe/FB/XP95 29600-318

The protection housing 29600-318 consists of a grey bottom part made of plastic and a transparent cover. The housing protects an addressable loop-powered strobe Series XP95 from dust and humidity.



Specifications

Ambient temperature	-40°C to +80°C
Protection class	IP67
Dimensions W × H × D	125 × 125 × 100 (mm)
Weight	292g

Cross-references	Page	Art.Nr.	Name	Type
	241	356022	Strobe/FB/XP95/White/Clear 55000-878	
	241	356023	Strobe/FB/XP95/White/Orange 55000-879	
	240	356020	Strobe/FB/XP95/White/Red 55000-877	

359040 Base Sounder & Strobe/IP24/White LPBW

The Base LPBW serves for mounting of sounders, detector base sounders and strobes Series WMS and IBS. Due to the design, the base is covered by the signalling device and therefore cannot be seen nor is the height of devices increased.



A mounting plate is available for surface cabling of the base.

The base contains an integrated spring contact for through-connection of the loop, if the signalling device has been removed.

Features

- ◆ Cable entry from back side
- ◆ Multi-wire terminals with secure screw fitting
- ◆ Through-connection of loop line via spring contact
- ◆ Mechanical theft protection

Specifications

Ambient temperature	-25°C to +70°C
Protection class	IP24
Dimensions Ø × D	107 × 21 (mm)
Colour	white
Weight	48g

Cross-references	Page	Art.Nr.	Name	Type
	256	359049	Mounting Plate for Sounder/200/5pcs. DBSPD/5	
	247	355166	Sounder-Strobe/WB/200/White/Red/Multitone IBSST-DR-P01	
	248	355167	Sounder-Strobe/WB/200ISM/White/Red/Multitone IBSST-DR-P02	
	243	355162	Sounder-Strobe/WM/200/Red/Multitone/100dB WMSST-RR-P01	
	244	355163	Sounder-Strobe/WM/200ISM/Red/Multitone/100dB WMSST-RR-P02	
	245	355164	Sounder/WB/200/White/Multitone IBSOU-DD-P01	
	246	355165	Sounder/WB/200ISM/White/Multitone IBSOU-DD-P02	
	242	355160	Sounder/WM/200/Red/Multitone/100dB WMSOU-RR-P01	
	242	355161	Sounder/WM/200ISM/Red/Multitone/100dB WMSOU-RR-P02	
	249	356140	Strobe/WM/200/Red WMSTR-WR-P01	
	249	356141	Strobe/WM/200ISM/Red WMSTR-WR-P02	

359043 Base Sounder & Strobe/IP44/White SDBW

The Base SDBW serves for mounting of sounders, detector base sounders and strobes Series WMS and IBS. Due to the design of the base, cable entry is possible from the back or from the side.



The base contains an integrated spring contact for through-connection of the loop, if the signalling device has been removed.

Features

- ◆ Cable entry possible from the back or from the side (in case of surface mount installation)
- ◆ Multi-wire terminals with secure screw fitting
- ◆ Through-connection of loop line via spring contact
- ◆ Mechanical theft protection

Specifications

Ambient temperature	-25°C to +70°C
Protection class	IP44
Dimensions Ø × D	107 × 61 (mm)
Additional depth of signalling devices	43mm
Colour	white
Weight	110g

Cross-references	Page	Art.Nr.	Name	Type
	247	355166	Sounder-Strobe/WB/200/White/Red/Multitone	IBSST-DR-P01
	248	355167	Sounder-Strobe/WB/200ISM/White/Red/Multitone	IBSST-DR-P02
	245	355164	Sounder/WB/200/White/Multitone	IBSOU-DD-P01
	246	355165	Sounder/WB/200ISM/White/Multitone	IBSOU-DD-P02

359044**Base Sounder & Strobe/IP65/White WDBW**

The Base WDBW serves for the indoor and outdoor wall mounting of sounders and strobes Series WMS. Due to the design of the base, cable entry is possible from the back or the side.

The base contains an integrated spring contact for through-connection of the loop, if the signalling device has been removed.

Features

- ◆ Cable entry possible from the back or the side (in case of surface mount installation)
- ◆ Multi-wire terminals with secure screw fitting
- ◆ Through-connection of loop line via spring contact
- ◆ Mechanical theft protection

Specifications

Ambient temperature	-25°C to +70°C
Protection class	IP65
Dimensions Ø × D	107 × 61 (mm)
Additional depth of signalling devices	43mm
Colour	white
Weight	112g

Cross-references	Page	Art.Nr.	Name	Type
	247	355166	Sounder-Strobe/WB/200/White/Red/Multitone	IBSST-DR-P01
	248	355167	Sounder-Strobe/WB/200ISM/White/Red/Multitone	IBSST-DR-P02
	245	355164	Sounder/WB/200/White/Multitone	IBSOU-DD-P01
	246	355165	Sounder/WB/200ISM/White/Multitone	IBSOU-DD-P02

359041**Base Sounder & Strobe/IP44/Red SDBR**

The Base SDBR serves for mounting of sounders, detector base sounders and strobes Series WMS and IBS. Due to the design of the base, cable entry is possible from the back or from the side.



The base contains an integrated spring contact for through-connection of the loop, if the signalling device has been removed.

Features

- ◆ Cable entry possible from the back or from the side (in case of surface mount installation)
- ◆ Multi-wire terminals with secure screw fitting
- ◆ Through-connection of loop line via spring contact
- ◆ Mechanical theft protection

Specifications

Ambient temperature	-25°C to +70°C
Protection class	IP44
Dimensions Ø × D	107 × 61 (mm)

Additional depth of signalling devices	43mm
Colour	red
Weight	110g

Cross-references	Page	Art.Nr.	Name	Type
	243	355162	Sounder-Strobe/WM/200/Red/Multitone/100dB	WMSST-RR-P01
	244	355163	Sounder-Strobe/WM/200ISM/Red/Multitone/100dB	WMSST-RR-P02
	242	355160	Sounder/WM/200/Red/Multitone/100dB	WMSOU-RR-P01
	242	355161	Sounder/WM/200ISM/Red/Multitone/100dB	WMSOU-RR-P02
	249	356140	Strobe/WM/200/Red	WMSTR-WR-P01
	249	356141	Strobe/WM/200ISM/Red	WMSTR-WR-P02

359042 Base Sounder & Strobe/IP65/Red WDBR

The Base WDBR serves for the indoor and outdoor wall mounting of sounders and strobes Series WMS. Due to the design of the base, cable entry is possible from the back or the side.

The base contains an integrated spring contact for through-connection of the loop, if the signalling device has been removed.

Features

- ◆ Cable entry possible from the back or the side (in case of surface mount installation)
- ◆ Multi-wire terminals with secure screw fitting
- ◆ Through-connection of loop line via spring contact
- ◆ Mechanical theft protection

Specifications

Ambient temperature	-25°C to +70°C
Protection class	IP65
Dimensions Ø × D	107 × 61 (mm)
Additional depth of signalling devices	43mm
Colour	red
Weight	112g

Cross-references	Page	Art.Nr.	Name	Type
	243	355162	Sounder-Strobe/WM/200/Red/Multitone/100dB	WMSST-RR-P01
	244	355163	Sounder-Strobe/WM/200ISM/Red/Multitone/100dB	WMSST-RR-P02
	242	355160	Sounder/WM/200/Red/Multitone/100dB	WMSOU-RR-P01
	242	355161	Sounder/WM/200ISM/Red/Multitone/100dB	WMSOU-RR-P02
	249	356140	Strobe/WM/200/Red	WMSTR-WR-P01
	249	356141	Strobe/WM/200ISM/Red	WMSTR-WR-P02

359049 Mounting Plate for Sounder/200/5pcs. DBSPD/5

The white mounting plate enables the surface cabling of sounders, detector base sounders and strobes Series WMS and IBS in conjunction with the Base Sounder & Strobe/IP24/white LPBW.



Specifications

Dimensions Ø × D	107 × 17 (mm)
Additional depth of signalling devices	10mm
Weight	24g
Colour	cream

Cross-references	Page	Art.Nr.	Name	Type
	254	359040	Base Sounder & Strobe/IP24/White LPBW	

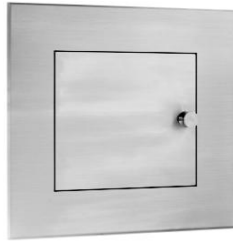
27

Fire Brigade Key Boxes and Accessories

265740

Fire Brigade Key Box FSK700-2/D1

The fire brigade key box FSK700-2/D1 is certified according to VdS 2105 and serves for the theft-proof and copy-protected safekeeping of a key which allows the fire brigade fast and non-violent access to the building in the event of fire. Housing and blind frame are made of 5mm stainless steel and, therefore, provide not only mechanical stability but also high corrosion resistance. A standard built-in heating device (5W) guarantees unhindered opening of the outer door even at low temperatures. The key box can be connected to an existing burglar alarm system without any additional items. The electric components of the key box are designed for an operating voltage of 12 to 24VDC, which allows the Fire Brigade Key Box FSK700-2/D1 to be connected via Control Unit for FSK700 AD700-1/D1 and AD900-1/D1 to any fire detection control panel (even from other manufacturers).

Features

- ◆ High mechanical safety due to use of strong materials and intelligent design
- ◆ High corrosion resistance, entire body construction made of stainless steel V2A
- ◆ Burglar alarm surveillance for the following componentries and functions
 - Outer door protected against drilling and forced opening
 - Correct deposit of the key in the cylinder of the console
- ◆ Application of all locking systems possible due to a variety of optional inner doors
- ◆ Buzzer for indication of incorrect deposit of key
- ◆ Heating device for outer door
- ◆ Optional flush mounting frame enables preparation for installation; also available with all-side drilling protection
- ◆ Adjusting options for even alignment of the key box
- ◆ Installation in optional Key Box Column possible

Specifications

Operating voltage	12/24VDC ± 15%
Duty cycle of electromagnet	100%
Current consumption	500mA (active) at 12VDC 250mA (active) at 24VDC
Outer door heating	24VAC/DC/5VA
Resistance of alarm circuit	2.2kOhm ±5%
Ambient temperature	-25°C to +70°C
Protection class	IP44
Dimensions W × H × D	290 × 275 × 145 (mm)
Weight	12.7kg
Approval	VdS G199055

Cross-references	Page	Art.Nr.	Name	Type
	260	265900	Fire Brigade Keysafe Adapter AD900-1/D1	
	259	265751	Flush Mounting Frame for FSK700-2 EZ700-2/D1	
	259	265818	Flush Mounting Frame with Drilling Protection for FSK700-2 EZBS700-2	
	261	265752	Inner Door for FSK700-2/A ITA-2	
	261	265753	Inner Door for FSK700-2/DBUK ITB-2	
	262	265757	Inner Door for FSK700-2/DBUM ITF-2	
	260	237700	Power Supply for FSK Heating NT700-1	
	259	249650	Protective Cover for FSK700-2 WSD-FSK	
	263	265762	Steel Column V2A for F0345 + Strobe HSF700-2/D3	
	263	265761	Steel Column V2A for F0345 HSF700-2/D2	
	262	265765	Steel Column V2A for FSE-MP1 + Strobe HSF700-2/D6	
	264	265764	Steel Column V2A for FSE-MP1 HSF700-2/D5	
	264	265763	Steel Column V2A for Strobe HSF700-2/D4	
	262	265760	Steel Column V2A Standard HSF700-2/D1	
	265	265660	Unlocking Element F0345	

265742 Fire Brigade Key Box FSK700-2S2/D1

The Fire Brigade Key Box FSK700-2S2/D1 is tested according to VdS 2105 and serves for theft-save and copy-protected keeping of two keys of a building, which enable the fire brigade to a fast and non-violent access of the building in case of fire. The keys have to be kept separately in the fire brigade key box, if two separate user areas for the fire detection system or two separate access roads for the fire brigade exist. After an alarm, an LED in the Fire Brigade Key Box above the mounted half cylinder optically indicates which key has to be taken out for access, after rescue forces have opened the outer and inner door. Both half cylinders are monitored for proper key storage and removal by the Fire Brigade Key Safe Adapter AD900-1/D1. The box and the front plate consist of 5mm stainless steel and hence offer mechanic stability and high resistance against corrosion. An integrated heating device (5W) guarantees the opening of the outer door also in case of low temperatures. The electrical components of the key box are designed for an operating voltage of 12 or 24VDC, thus enabling the connection to all fire detection control panels (also products from other manufacturers) via the Fire Brigade Key Safe Adapter AD900-1/D1.

Features

- ◆ Separate storage of two building keys
- ◆ High mechanical safety through application of strong materials and sophisticated construction
- ◆ High corrosion resistance, entire body construction made of stainless steel V2A
- ◆ Burglar alarm surveillance for the following componentries and functions
 - Outer door protected against drilling and forced opening
 - Correct deposit of the keys in the cylinder of the console
- ◆ Application of all locking systems possible due to a variety of optional inner doors
- ◆ Buzzer for signalling inappropriate storage of keys
- ◆ Heating device for outer door
- ◆ Optional flush mounting frame enables preparation for installation; also available with all-side drilling protection
- ◆ Adjustment possible for flush mounting of the key box
- ◆ Installation in an optional stainless steel key box column possible

Specifications

Operating voltage	12/24VDC ± 15%
Duty cycle electromagnet	100%
Current consumption	500mA (active), at 12VDC 250mA (active), at 24VDC
Outer door heating	24VAC/5VA
Resistance of the alarm circuit	2.2kOhm ±5%
Ambient temperature	-25°C to +70°C
Protection class	IP44
Dimensions W × H × D	290 × 275 × 145 (mm)
Weight	12.7kg
Approval	VdS G199055

Cross-references	Page	Art.Nr.	Name	Type
	260	265900	Fire Brigade Keysafe Adapter AD900-1/D1	
	259	265751	Flush Mounting Frame for FSK700-2 EZ700-2/D1	
	259	265818	Flush Mounting Frame with Drilling Protection for FSK700-2 EZBS700-2	
	261	265752	Inner Door for FSK700-2/A ITA-2	
	261	265753	Inner Door for FSK700-2/DBUK ITB-2	
	262	265757	Inner Door for FSK700-2/DBUM ITF-2	
	260	237700	Power Supply for FSK Heating NT700-1	
	259	249650	Protective Cover for FSK700-2 WSD-FSK	
	263	265762	Steel Column V2A for F0345 + Strobe HSFSK700-2/D3	
	263	265761	Steel Column V2A for F0345 HSFSK700-2/D2	
	262	265765	Steel Column V2A for FSE-MP1 + Strobe HSFSK700-2/D6	
	264	265764	Steel Column V2A for FSE-MP1 HSFSK700-2/D5	
	264	265763	Steel Column V2A for Strobe HSFSK700-2/D4	

262	265760	Steel Column V2A Standard HSFSK700-2/D1
265	265660	Unlocking Element F0345
265	265661	Unlocking Element for Half Cylinder FSE-MP1

265751 Flush Mounting Frame for FSK700-2 EZ700-2/D1

The flush mounting frame, made of galvanised sheet steel, serves as a joint between the Fire Brigade Key Box FSK700-2 and the wall and enables an easy installation in the construction stage of the building.



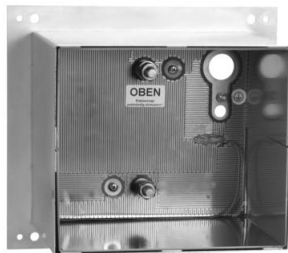
Specifications

Dimensions W × H × D	275 × 245 × 160 (mm)
Colour	silver-grey
Weight	3.3kg

Cross-references	Page	Art.Nr.	Name	Type
	257	265740	Fire Brigade Key Box FSK700-2/D1	
	258	265742	Fire Brigade Key Box FSK700-2S2/D1	

265818 Flush Mounting Frame with Drilling Protection for FSK700-2 EZBS700-2

The flush mounting frame made of galvanised sheet steel with all-side drilling protection serves as joint between the Fire Brigade Key Box FSK700-2/D1 or FSK700-2S2/D1 and the wall or the hollow column without concrete filling.



Specifications

Dimensions W × H × D	275 × 245 × 160
Weight	3.5kg

Cross-references	Page	Art.Nr.	Name	Type
	257	265740	Fire Brigade Key Box FSK700-2/D1	
	258	265742	Fire Brigade Key Box FSK700-2S2/D1	

249650 Protective Cover for FSK700-2 WSD-FSK

The protective cover WSD-FSK for the FSK700-2 is made of stainless steel V2A and serves for additional protection against moisture in the area of the outer door, when raining water

penetrates this area from the top or from the side. The protective cover is placed from the top behind the trim frame of the FSK700-2.



Specifications

Dimensions W × H × D	300 × 275 × 55 (mm)
Colour	silver-grey
Weight	500g

Cross-references	Page	Art.Nr.	Name	Type
	257	265740	Fire Brigade Key Box FSK700-2/D1	
	258	265742	Fire Brigade Key Box FSK700-2S2/D1	

237700 Power Supply for FSK Heating NT700-1

The power supply unit NT700-1 provides the voltage supply for the exterior door heating of the Fire Brigade Key Boxes FSK700-2/D1 and FSK700-2S2/D1 and for the Fire Brigade Key Safe FSS800-1. The power supply unit is integrated in a surface mounting box that is also suitable for DIN rail mounting. A circuit breaker is installed for overload and short-circuit protection.



Specifications

Operating voltage	230VAC +10/-15%, 50Hz
Output voltage	12/24VAC
Protection class	IP30
Ambient temperature	0°C to +70°C
Dimensions W × H × D	90 × 160 × 80 (mm)

Cross-references	Page	Art.Nr.	Name	Type
	257	265740	Fire Brigade Key Box FSK700-2/D1	
	258	265742	Fire Brigade Key Box FSK700-2S2/D1	

265900 Fire Brigade Keysafe Adapter AD900-1/D1

The Fire Brigade Key Safe Adapter AD900-1/D1, according to VdS 2105, for monitoring and control of the fire brigade key box. The adapter is accommodated in a grey white steel sheet case, suitable for surface indoor mounting. The optical indicators 'Power', 'Key Box alarm', 'Key Box unlocked' and 'Key removed' are clearly arranged and indicate the operating conditions of the system. The AD900-1/D1 is able to monitor two separately stored keys in the Fire Brigade Key Box FSK700-2S2/D1 for proper storage and removal, and to optically indicate the corresponding key. The operating voltage of 10-30VDC enables the connection to all commercial control panels without adjustment. Numerous adaptations to specific system conditions (actuation with High or Low signal, static or dynamic transmission of key box alarm to the fire detection or burglar alarm control panel,



open-circuit or closed-circuit operation) are possible by means of the DIL switch. Opening of the adapter is monitored by a door contact.

Features

- ◆ Easy adaptation to different system configurations via DIL switch
- ◆ Function testing of box monitoring with button
- ◆ Reset of alarm memory with button
- ◆ Temporary unlocking for testing with button

Specifications

Operating voltage	10 - 30VDC
Current consumption	<20mA (without box locking system)
Ambient temperature	-10°C to +50°C
Protection class	IP30
Dimensions W × H × D	137 × 180 × 57 (mm)
Colour	grey white, RAL 9002
Weight	1.2 kg
Approval	VdS G105045

Cross-references	Page	Art.Nr.	Name	Type
	257	265740	Fire Brigade Key Box FSK700-2/D1	
	258	265742	Fire Brigade Key Box FSK700-2S2/D1	

265752

Inner Door for FSK700-2/A ITA-2

Inner door for the Fire Brigade Key Box FSK700-2, made of 5mm stainless steel with a lock for a profile half cylinder.



Specifications

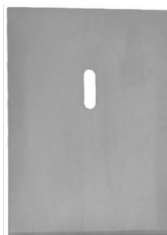
Dimensions W × H × D	108 × 150 × 5 (mm)
Weight	0.5kg

Cross-references	Page	Art.Nr.	Name	Type
	257	265740	Fire Brigade Key Box FSK700-2/D1	
	258	265742	Fire Brigade Key Box FSK700-2S2/D1	

265753

Inner Door for FSK700-2/DBUK ITB-2

Inner door for Fire Brigade Key Boxes made of 5mm stainless steel sheet, for installation of the double-bit lock manufactured by Kruse or KABA-Bauer including door stop and accessories.



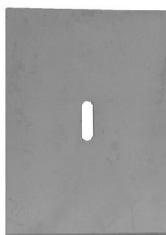
Specifications

Dimensions W × H × D	108 × 150 × 5 (mm)
Weight	0.4kg

Cross-references	Page	Art.Nr.	Name	Type
	257	265740	Fire Brigade Key Box FSK700-2/D1	
	258	265742	Fire Brigade Key Box FSK700-2S2/D1	

265757 Inner Door for FSK700-2/DBUM ITF-2

Inner door for Fire Brigade Key Boxes made of 5mm stainless steel sheet, for installation of the double-bit lock manufactured by Mauer, type 70091/92, including door stop and accessories.



Specifications

Dimensions W × H × D 108 × 150 × 5 (mm)
Weight 0.4kg

Cross-references	Page	Art.Nr.	Name	Type
	257	265740	Fire Brigade Key Box FSK700-2/D1	
	258	265742	Fire Brigade Key Box FSK700-2S2/D1	

265765 Steel Column V2A for FSE-MP1 + Strobe HSFSK700-2/D6

The Steel Column V2A is made of 3mm stainless steel and provides a platform for mounting the Fire Brigade Key Box FSK700-2, an Unblocking Element for half cylinders and a strobe, if installation of the key box in the building front is not possible due to technical or structural reasons, or due to special requirements by the fire safety authority.



Specifications

- ◆ Installation of FSK700-2 possible with flush mounting frame
- ◆ Column prepared for installation of a strobe and the Unblocking Element FSE-MP1 (half cylinders)
- ◆ Reinforcement iron cage for anchoring
- ◆ Flexible armoured tube for different types of cables
- ◆ Low net weight
- ◆ Surface made of polished, stainless steel

Specifications

Dimensions W × H × D 400 × 1250 × 300 (mm)
Weight approx. 60kg

Cross-references	Page	Art.Nr.	Name	Type
	257	265740	Fire Brigade Key Box FSK700-2/D1	
	258	265742	Fire Brigade Key Box FSK700-2S2/D1	
	259	265751	Flush Mounting Frame for FSK700-2 EZ700-2/D1	
	230	356671	Strobe/24V/Orange BE/A/S/2.0/24VBMT	
	265	265661	Unblocking Element for Half Cylinder FSE-MP1	

265760 Steel Column V2A Standard HSFSK700-2/D1

The Steel Column V2A Standard is made of 3mm stainless steel and provides a platform for mounting the Fire Brigade Key Box FSK700-2, if installation of the key box in the building

front is not possible due to technical or structural reasons, or due to special requirements by the fire safety authority.

Specifications

- ◆ Installation of FSK700-2 possible with flush mounting frame
- ◆ Reinforcement iron cage for anchoring
- ◆ Flexible armoured tube for different types of cables
- ◆ Low net weight
- ◆ Surface made of polished, stainless steel

Specifications

Dimensions W × H × D 400 × 1250 × 300 (mm)
Weight approx. 60kg

Cross-references	Page	Art.Nr.	Name	Type
	257	265740	Fire Brigade Key Box FSK700-2/D1	
	258	265742	Fire Brigade Key Box FSK700-2S2/D1	
	259	265751	Flush Mounting Frame for FSK700-2 EZ700-2/D1	

265761

Steel Column V2A for F0345 HSFSK700-2/D2

The Standard Column V2A is made of 3mm stainless steel and provides a platform for mounting the Fire Brigade Key Box FSK700-2 and the Unblocking Element F0345, if installation of the key box in the building facade is not possible due to technical or structural reasons, or due to special requirements by the fire safety authority.

Specifications

- ◆ Installation of FSK700-2 possible with flush mounting frame
- ◆ Column prepared for installation of the Unblocking Element F0345
- ◆ Reinforcement iron cage for anchoring
- ◆ Flexible armoured tube for different types of cables
- ◆ Low net weight
- ◆ Surface made of polished, stainless steel

Specifications

Dimensions W × H × D 400 × 1250 × 300 (mm)
Weight approx. 60kg

Cross-references	Page	Art.Nr.	Name	Type
	257	265740	Fire Brigade Key Box FSK700-2/D1	
	258	265742	Fire Brigade Key Box FSK700-2S2/D1	
	259	265751	Flush Mounting Frame for FSK700-2 EZ700-2/D1	
	265	265660	Unblocking Element F0345	

265762

Steel Column V2A for F0345 + Strobe HSFSK700-2/D3

The Steel Column V2A is made of 3mm stainless steel and provides a platform for mounting the Fire Brigade Key Box FSK700-2, the Unblocking Element F0345 and a strobe, if installation of the key box in the building front is not possible due to technical or structural reasons, or due to special requirements by the fire safety authority.

Specifications

- ◆ Installation of FSK700-2 possible with flush mounting frame
- ◆ Column prepared for installation of the Unblocking Element F0345 and a strobe
- ◆ Reinforcement iron cage for anchoring
- ◆ Flexible armoured tube for different types of cables
- ◆ Low net weight
- ◆ Surface made of polished, stainless steel

Specifications

Dimensions W × H × D 400 × 1250 × 300 (mm)
Weight approx. 60kg

Cross-references	Page	Art.Nr.	Name	Type
	257	265740	Fire Brigade Key Box FSK700-2/D1	
	258	265742	Fire Brigade Key Box FSK700-2S2/D1	
	259	265751	Flush Mounting Frame for FSK700-2 EZ700-2/D1	
	230	356671	Strobe/24V/Orange BE/A/S/2.0/24VBMT	
	265	265660	Unblocking Element F0345	

265763 Steel Column V2A for Strobe HSFSK700-2/D4

The Steel Column V2A is made of 3mm stainless steel and provides a platform for mounting the Fire Brigade Key Box FSK700-2 and a strobe, if installation of the key box in the building front is not possible due to technical or structural reasons, or due to special requirements by the fire safety authority.

Specifications

- ◆ Installation of FSK700-2 possible with flush mounting frame
- ◆ Column prepared for installation of a strobe
- ◆ Reinforcement iron cage for anchoring
- ◆ Flexible armoured tube for different types of cables
- ◆ Low net weight
- ◆ Surface made of polished, stainless steel

Specifications

Dimensions W × H × D 400 × 1250 × 300 (mm)
Weight approx. 60kg

Cross-references	Page	Art.Nr.	Name	Type
	257	265740	Fire Brigade Key Box FSK700-2/D1	
	258	265742	Fire Brigade Key Box FSK700-2S2/D1	
	259	265751	Flush Mounting Frame for FSK700-2 EZ700-2/D1	
	230	356671	Strobe/24V/Orange BE/A/S/2.0/24VBMT	

265764 Steel Column V2A for FSE-MP1 HSFSK700-2/D5

The Steel Column V2A is made of 3mm stainless steel and provides a platform for mounting the Fire Brigade Key Box FSK700-2 and an Unblocking Element for half cylinders, if installation of the key box in the building front is not possible due to technical or structural reasons, or due to special requirements by the fire safety authority.

Specifications

- ◆ Installation of FSK700-2 possible with flush mounting frame
- ◆ Column prepared for installation of the Unblocking Element FSE-MP1 (half cylinders)
- ◆ Reinforcement iron cage for anchoring
- ◆ Flexible armoured tube for different types of cables
- ◆ Low net weight
- ◆ Surface made of polished, stainless steel

Specifications

Dimensions W × H × D 400 × 1250 × 300 (mm)
Weight approx. 60kg

Cross-references	Page	Art.Nr.	Name	Type
	257	265740	Fire Brigade Key Box FSK700-2/D1	
	258	265742	Fire Brigade Key Box FSK700-2S2/D1	
	259	265751	Flush Mounting Frame for FSK700-2 EZ700-2/D1	
	265	265661	Unblocking Element for Half Cylinder FSE-MP1	

265660 Unlocking Element F0345

VdS approved unlocking element, made of stainless steel, with micro-switch as change-over contact for activation of a detector zone and a 1m long connection cable. Drill-protected design prepared with a special cylinder.

SpecificationsDimensions $\varnothing \times L$

42 × 80 (mm)

Approval

VdS G192034

Cross-references	Page	Art.Nr.	Name	Type
	257	265740	Fire Brigade Key Box FSK700-2/D1	
	258	265742	Fire Brigade Key Box FSK700-2S2/D1	
	263	265762	Steel Column V2A for F0345 + Strobe HSFSK700-2/D3	
	263	265761	Steel Column V2A for F0345 HSFSK700-2/D2	

265661 Unlocking Element for Half Cylinder FSE-MP1

VdS approved unlocking element, made of stainless steel, with micro-switch as change-over contact and a 10m long connection cable. Suitable for flush mounting or for installation in a Standard Column V2A for FSK700-2. The Unlocking Element FSE-MP1 is prepared for the integration of a half cylinder.

SpecificationsDimensions $\varnothing \times L$

62 × 70 (mm)

Approval

VdS G199083

Cross-references	Page	Art.Nr.	Name	Type
	257	265740	Fire Brigade Key Box FSK700-2/D1	
	258	265742	Fire Brigade Key Box FSK700-2S2/D1	
	262	265765	Steel Column V2A for FSE-MP1 + Strobe HSFSK700-2/D6	
	264	265764	Steel Column V2A for FSE-MP1 HSFSK700-2/D5	

268009 Fire Brigade Key Deposit/Surface Mount. FASB-AP

The Fire Brigade Key Deposit FASB for surface mounting is used for storage of additional building keys. The key deposit is delivered without a lock. It provides authorised access for the fire brigade or secured access for service personnel (e.g., technicians for elevator or heating). On fire brigade access routes, the key deposit is only allowed on demand by the fire brigade, e.g., when the access to the fire brigade key box is secured by a barrier. The door and the stored key are not monitored. The door is opened and locked simply by means of the cylinder lock.

Features

- ◆ Key deposit made of powder coated steel sheet
- ◆ Easy to mount

Specifications

Colour

pebble-grey, RAL 7032

Dimensions W × H × D

150 × 150 × 57 (mm)

Cross-references	Page	Art.Nr.	Name	Type
	266	265019	Cylinder for Steel Sheet Mounting FASB LST102	
	266	268012	Key for Fire Brigade Key Deposit 882AML102	

268010 Fire Brigade Key Deposit/Flush Mount. FASB-UP

The Fire Brigade Key Deposit FASB for flush mounting is used for storage of additional building keys. The key deposit is delivered without a lock. It provides authorised access for the fire brigade or secured access for service personnel (e.g., technicians for elevator or heating). On fire brigade access routes, the key deposit is only allowed on demand by the fire brigade, e.g., when the access to the fire brigade key box is secured by a barrier. The door and the stored key are not monitored. The door is opened and locked simply by means of the cylinder lock.



Features

- ◆ Key deposit made of powder coated steel sheet
- ◆ Easy to mount

Specifications

Colour pebble-grey, RAL 7032
 Dimensions W × H × D 150 × 150 × 57 (mm)

Cross-references	Page	Art.Nr.	Name	Type
	266	265019	Cylinder for Steel Sheet Mounting FASB LST102	
	266	268012	Key for Fire Brigade Key Deposit 882AML102	

265019 Cylinder for Steel Sheet Mounting FASB LST102

The cylinder for steel sheet mounting with the new magnetic lock system customised for LST is designed for installation into the Fire Brigade Key Deposit FASB.

Cross-references	Page	Art.Nr.	Name	Type
	266	268010	Fire Brigade Key Deposit/Flush Mount. FASB-UP	
	265	268009	Fire Brigade Key Deposit/Surface Mount. FASB-AP	
	266	268012	Key for Fire Brigade Key Deposit 882AML102	

268012 Key for Fire Brigade Key Deposit 882AML102

The Key 882AML102 fits the magnetic lock cylinder for steel sheet mounting, which is used for installation into the Fire Brigade Key Deposit FASB.

Cross-references	Page	Art.Nr.	Name	Type
	266	265019	Cylinder for Steel Sheet Mounting FASB LST102	

28

Fire Brigade Control and Display Devices

250008

Fire Brigade Control Unit FBF58-2

The operating panel FBF58-2 is designed according to "Variant B" of ÖNORM F 3031. It provides an optical indication of the most important operating conditions of the fire detection control panel via light emitting diodes and an additional text display, as well as easy and uniform operation of a fire detection system by the fire brigade personnel. The Fire Brigade Control Unit is controlled via the INFO bus of the control panel. Connection to a Fire Detection Control Panel Series BC216 can be achieved without additional modules. For connection to a Fire Detection Control Panel Series BC016, a Serial Interface Module SIM016-3 is required.

Features

- ◆ 2-line LC-display for clear information
- ◆ Scroll buttons for the display
- ◆ Green LED for operation
- ◆ Red LED for alarm
- ◆ Yellow LED for fault/disablement
- ◆ 2 LEDs for FDCPs with extinguishing system
- ◆ Button for silencing the siren
- ◆ Button for silencing the FDCP
- ◆ Button for testing the lamps
- ◆ Button for resetting the FDCP
- ◆ Elegant metal case with glass door

Specifications

Supply voltage	20 to 31VDC
Current consumption at 24VDC	40mA (quiescent), 55mA (active)
Ambient temperature	-5°C to +50°C
Dimensions W × H × D	200 × 300 × 50 (mm)
Colour	flame red, RAL 3000
Weight	1.4kg

Cross-references	Page	Art.Nr.	Name	Type
	23	214056	BCnet Sectional Control Panel/OP. BC216-2/INT1	
	30	2149997	BCnet Sectional Control Panel/OP. BC216-2EPS	
	12	214008	Fire Detection Control Panel BC216-1/INT1	
	27	214108	Fire Detection Control Panel BC216-1CE/INT1	
	16	214308	Fire Detection Control Panel BC216-1S/INT1	
	9	210112	Serial Interface Module SIM016-3	

250740

Fire Brigade Control Unit FBF900-1/D1

Fire Brigade Control Unit FBF900-1/D1 for standard connection to fire detection systems according to DIN 14661. The control unit provides an optical display for the most important operating conditions of the fire detection control panel to facilitate and standardise the operation of a fire detection system for the fire brigade. The Fire Brigade Control Unit FBF900-1/D1 can be connected to control panels of different manufacturers due to the individual actuation of indicators with an inverted or non-inverted signal and an operating voltage of 10-30V. A direct connection to Fire Detection Control Panels Series BC216 can be established via a Fire Brigade Interface FWI2-1, whereas a Fire Detection Control Panels Series BC016 can be connected via a Fire Brigade Interface FWI016-1. Parameters for in- and outputs are set at the control panel.



Features

- ◆ Green LED indicator for 'Operation'
- ◆ Red LED indicator for 'Panel summary alarm'
- ◆ Red LED indicator for 'Extinguishing systems activated'
- ◆ Yellow LED indicator for 'Acoustic signals off'
- ◆ Yellow LED indicator for 'Transmitting device disabled'
- ◆ Yellow LED indicator for 'Transmitting device activated'
- ◆ Yellow LED indicator for 'Fire controls off'
- ◆ Switch 'Acoustic signals off'
- ◆ Button 'Panel reset' with safety cover
- ◆ Switch 'Transmitting device off'
- ◆ Button 'Testing transmitting device'
- ◆ Metal case with glass door
- ◆ Prepared for a half cylinder locking mechanism

Specifications

Operating voltage	10 - 30VDC
Current consumption at 12VDC	< 20mA (quiescent), < 50mA (alarm)
Current consumption at 24VDC	< 20mA (quiescent), < 50mA (alarm)
Environmental class	II
Protection class	IP30
Dimensions W × H × D	225 × 180 × 57 (mm)
Colour	grey white, RAL 9002
Weight	2kg
Approval	VdS G200079

Cross-references	Page	Art.Nr.	Name	Type
	9	210111	Fire Brigade Interface FWI016-1	
	36	214022	Fire Brigade Interface FWI2-1	

250741 Fire Brigade Control Unit FBF900-2/D1

Fire Brigade Control Unit FBF900-2/D1 for standard connection to fire detection systems according to DIN 14661. The control unit provides an optical display of the most important operating conditions of the fire detection control panel to facilitate and standardise the operation of a fire detection system for the fire brigade. The Fire Brigade Control Unit FBF900-2/D1 can be directly connected to the Fire Detection Control Panels Series BC216 via a Fire Brigade Interface FWI2-1, whereas a connection to the Fire Detection Control Panels Series BC016 is established via the Fire Brigade Interface FWI016-1.



operation of a fire detection system for the fire brigade. The Fire Brigade Control Unit FBF900-2/D1 can be directly connected to the Fire Detection Control Panels Series BC216 via a Fire Brigade Interface FWI2-1, whereas a connection to the Fire Detection Control Panels Series BC016 is established via the Fire Brigade Interface FWI016-1.

Features

- ◆ Green LED indicator for 'Operation'
- ◆ Red LED indicator for 'Panel summary alarm'
- ◆ Red LED indicator for 'Extinguishing systems activated'
- ◆ Yellow LED indicator for 'Acoustic signals off'
- ◆ Yellow LED indicator for 'Transmitting device disabled'
- ◆ Yellow LED indicator for 'Transmitting device activated'
- ◆ Yellow LED indicator for 'Fire control off'
- ◆ Switch 'Acoustic signals off'
- ◆ Button 'Panel reset' with safety cover
- ◆ Switch 'Transmitting device off'
- ◆ Button 'Test transmitting device'
- ◆ Metal case with glass door
- ◆ Prepared for a half cylinder locking mechanism

Specifications

Operating voltage	20 - 30VDC
Current consumption	< 12mA (quiescent), < 80mA (alarm)
Environmental class	II
Protection class	IP30

Dimensions W × H × D	225 × 180 × 57 (mm)
Colour	grey white, RAL 9002
Weight	2kg
Approval	VdS G200091

Cross-references	Page	Art.Nr.	Name	Type
	9	210111	Fire Brigade Interface FWI016-1	
	36	214022	Fire Brigade Interface FWI2-1	

250707**Fire Brigade Display Panel FAT900-1/D1**

The Fire Brigade Display Panel FAT900-1/D1 is, according to DIN 14662, an ancillary device for fire detection systems and provides acoustic and optic display of events from detectors, detector zones and system conditions of Fire Detection Control Panels Series BC016 and BC216 on a remote site. The standardised and clear design is user friendly and allows the fire brigade personnel a quick overview of the relevant information and an easy operation. The Fire Brigade Display Panel FAT900-1/D1 is directly connected to the INFO bus of the Fire Detection Control Panel Series BC216. A Serial Interface Module SIM016-3 is required for connection to a Fire Detection Control Panels Series BC016. The power is supplied by the control panel and is therefore backed up by stand-by batteries. Event text messages from the control panel are displayed by default. Additional texts can be programmed using the FatProgWin software. The case is equipped with a lock for half cylinders. The cylinder lock has to be installed in compliance with the local fire brigade.

Features

- ◆ Green LED indicator for 'operation'
- ◆ Red LED indicator for 'alarm'
- ◆ Yellow LED indicator for 'fault and disablement'
- ◆ Button 'display level'
- ◆ Button 'buzzer off'
- ◆ Button 'scroll forwards'
- ◆ Button 'scroll backwards'
- ◆ 4 line by 20 character backlit display
- ◆ Metal case with glass door
- ◆ Lock for half cylinders

Specifications

Operating voltage	10 - 30VDC
Current consumption at 24V	30mA (quiescent), 90mA (alarm)
Baudrate	1200Baud (can be changed with FatProgWin)
Ambient temperature	0°C to +50°C
Dimensions W × H × D	225 × 180 × 58 (mm)
Colour	grey white, RAL 9002
Weight	3.5kg

Cross-references	Page	Art.Nr.	Name	Type
	29	214105	BCnet Sectional Control Panel/No Op. BC216-3CE	
	25	214005	BCnet Sectional Control Panel/No Operation BC216-3	
	23	214056	BCnet Sectional Control Panel/OP. BC216-2/INT1	
	30	2149997	BCnet Sectional Control Panel/OP. BC216-2EPS	
	12	214008	Fire Detection Control Panel BC216-1/INT1	
	27	214108	Fire Detection Control Panel BC216-1CE/INT1	
	16	214308	Fire Detection Control Panel BC216-1S/INT1	
	9	210112	Serial Interface Module SIM016-3	

250900 Fire Brigade Display Panel FAT900-2/D1

The Fire Brigade Display Panel FAT900-2/D1 in redundant design is, according to DIN 14662, an ancillary device for fire detection systems and provides acoustic and optic display of events from detectors, detector zones and system conditions of the Fire Detection Control Panels Series BC016 and BC216 on a remote site. The standardised and clear design is user friendly and allows the fire brigade a quick overview of all relevant information and an easy operation. The Fire Brigade Display Panel FAT900-2/D1 is connected to the INFO bus of the Fire Detection Control Panels BC016 or BC216. The optional componentry ADFAT900-2/D1 has to be installed in the control panel to guarantee redundant data transfer. The power is supplied by the control panel and is therefore backed up by stand-by batteries. Event text messages from the control panel are displayed by default. Additional text messages can be programmed using the FatProgWin software. The case is equipped with a lock for half cylinders. The cylinder lock has to be installed in compliance with the local fire brigade.



Features

- ◆ Green LED indicator for 'Operation'
- ◆ Red LED indicator for 'Alarm'
- ◆ Yellow LED indicator for 'Fault'
- ◆ Yellow LED indicator for 'Disablement'
- ◆ Button 'Display level'
- ◆ Button 'Buzzer off'
- ◆ Button 'Scroll forwards'
- ◆ Button 'Scroll backwards'
- ◆ 4 line by 20 character backlit display
- ◆ Metal case with glass door
- ◆ Lock for half cylinders

Features

Operating voltage	10 - 30VDC
Current consumption at 24V	30mA (quiescent), 90mA (alarm)
Baudrate	1200Baud (can be changed with FatProgWin)
Ambient temperature	0°C to +50°C
Dimensions W × H × D	225 × 180 × 58 (mm)
Colour	grey white, RAL 9002
Weight	3.5kg
Approval	VdS G205090

Cross-references	Page	Art.Nr.	Name	Type
	29	214105	BCnet Sectional Control Panel/No Op. BC216-3CE	
	25	214005	BCnet Sectional Control Panel/No Operation BC216-3	
	23	214056	BCnet Sectional Control Panel/OP. BC216-2/INT1	
	30	2149997	BCnet Sectional Control Panel/OP. BC216-2/EPS	
	12	214008	Fire Detection Control Panel BC216-1/INT1	
	27	214108	Fire Detection Control Panel BC216-1CE/INT1	
	16	214308	Fire Detection Control Panel BC216-1S/INT1	
	270	250901	Redundant Transmission Adapter ADFAT900-2/D1	
	9	210112	Serial Interface Module SIM016-3	

250901 Redundant Transmission Adapter ADFAT900-2/D1

Module for redundant operation of the Fire Brigade Display Panel FAT900-2/D1 and the Fire Brigade Orientation Panel FOTR900-2/D1 to Fire Detection Control Panels BC016 and BC216. For installation in control panels, the module is mounted in the corresponding mounting bracket by using the provided printed circuit board spacers made of PVC.



Specifications

Operating voltage	10 - 30VDC
Current consumption at 24V	20mA
Ambient temperature	0°C to +50°C
Dimensions W × H × D	72 × 65 × 25 (mm)
Weight	100g
Approval	VdS G200079

Cross-references	Page	Art.Nr.	Name	Type
	270	250900	Fire Brigade Display Panel FAT900-2/D1	
	271	250902	Fire Brigade Orientation Panel FOTR900-2/D1	

250717**Fire Brigade Orientation Panel FOTR900-1/D1**

The Fire Brigade Orientation Panel FOTR900-1/D provides the fire brigade on-site quickly with precise information. It contains the Fire Brigade Control Unit FBF900-1/D1 for operation of Fire Detection Control Panels Series BC016 and BC216 by the fire brigade according to DIN 14661 and the Fire Brigade Display Panel FAT900-1/D1 according to DIN 14662 for information retrieval. Both devices are accommodated in a powder coated steel sheet case, coloured in flame red RAL 3000 or in a colour requested by the operator. A lock for half cylinders is mounted in the case of the Fire Brigade Orientation Panel FOTR900-1/D.



The Fire Brigade Orientation Panel FOTR900-2/D1 can be combined with the Fire Brigade Map Box FPKCLR900-1/D1 (DOM-CL1-lock) or FPKPHZR900-1/D1 (lock for half cylinders) to a compact unit.

Features

- ◆ Integrated Fire Brigade Display Panel FAT900-1/D1
- ◆ Integrated Fire Brigade Control Unit FBF900-1/D1
- ◆ Lock for half cylinders

Specifications

Operating voltage	10 - 30VDC
Current consumption at 24V	50mA (quiescent), 150mA (alarm)
Ambient temperature	0°C to +50°C
Dimensions W × H × D	230 × 360 × 95 (mm)
Colour	flame red, RAL 3000
Weight	3.7kg

Cross-references	Page	Art.Nr.	Name	Type
	29	214105	BCnet Sectional Control Panel/No Op. BC216-3CE	
	25	214005	BCnet Sectional Control Panel/No Operation BC216-3	
	23	214056	BCnet Sectional Control Panel/OP. BC216-2/INT1	
	30	2149997	BCnet Sectional Control Panel/OP. BC216-2EPS	
	9	210111	Fire Brigade Interface FWI016-1	
	36	214022	Fire Brigade Interface FWI2-1	
	273	250709	Fire Brigade Map Box FPKCLR900-1	
	274	250713	Fire Brigade Map Box FPKPHZR900-1	
	12	214008	Fire Detection Control Panel BC216-1/INT1	
	27	214108	Fire Detection Control Panel BC216-1CE/INT1	
	16	214308	Fire Detection Control Panel BC216-1S/INT1	
	9	210112	Serial Interface Module SIM016-3	

250902**Fire Brigade Orientation Panel FOTR900-2/D1**

The Fire Brigade Orientation Panel FOTR900-2/D1 in redundant design, according to DIN 14662, provides the fire brigade on site quickly with the first precise information on the condition of the fire detection system. It includes the Fire Brigade Control Unit FBF900-1/D1 as



operating panel for Fire Detection Control Panels BC016 and BC216 according to DIN 14661 and the Fire Brigade Display Panel FAT900-2/D1 for information retrieval according to DIN 14662.

Both devices are accommodated in a powder coated ST 37 steel case, coloured in flame red RAL 3000 or in a colour requested by the operator. To establish a redundant connection to a Fire Detection Control Panel BC016 or BC216, the ADFAT900-2/D1 module has to be installed in the control panel. A lock for half cylinders is mounted in the case of Fire Brigade Orientation Panel FOTR900-2/D1.

The Fire Brigade Orientation Panel FOTR900-2/D1 can be combined with the Fire Brigade Map Box FPKCLR900-1/D1

(DOM-CL1-lock) or FPKPHZR900-1/D1 (lock for half cylinders) to a compact unit.

Features

- ◆ Integrated Fire Brigade Display Panel FAT900-2/D1
- ◆ Integrated Fire Brigade Control Unit FBF900-1/D1
- ◆ Lock for half cylinders

Specifications

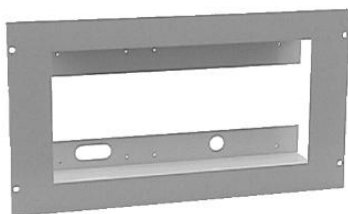
Operating voltage	10 - 30VDC
Current consumption at 24V	50mA (quiescent), 150mA (alarm)
Ambient temperature	0°C to +50°C
Dimensions W × H × D	230 × 360 × 95 (mm)
Colour	flame red, RAL 3000
Weight	3.7kg
Approvals	VdS G200079 VdS G205090

Cross-references	Page	Art.Nr.	Name	Type
	29	214105	BCnet Sectional Control Panel/No Op. BC216-3CE	
	25	214005	BCnet Sectional Control Panel/No Operation BC216-3	
	23	214056	BCnet Sectional Control Panel/OP. BC216-2/INT1	
	30	2149997	BCnet Sectional Control Panel/OP. BC216-2EPS	
	9	210111	Fire Brigade Interface FWI016-1	
	36	214022	Fire Brigade Interface FWI2-1	
	273	250709	Fire Brigade Map Box FPKCLR900-1	
	274	250713	Fire Brigade Map Box FPKPHZR900-1	
	12	214008	Fire Detection Control Panel BC216-1/INT1	
	27	214108	Fire Detection Control Panel BC216-1CE/INT1	
	16	214308	Fire Detection Control Panel BC216-1S/INT1	
	270	250901	Redundant Transmission Adapter ADFAT900-2/D1	
	9	210112	Serial Interface Module SIM016-3	

250606

Mounting Frame 19"/6HU RAHMEN

Mounting frame 19"/6HU for accommodation of a Fire Brigade Control Unit FBF900-1 or FBF900-2 and one Fire Brigade Key Safe Adapter AD900-1 in a Fire Detection Control Panel Housing GEH19/14, GEH19/18, GEH19/40-1 or GEH19/STAND.



Specifications

Colour	grey white, RAL 9002
Weight	1.5kg

Cross-references	Page	Art.Nr.	Name	Type
	45	212027	Cabinet 19"/18HU GEH19/18	
	267	250740	Fire Brigade Control Unit FBF900-1/D1	
	268	250741	Fire Brigade Control Unit FBF900-2/D1	
	260	265900	Fire Brigade Keysafe Adapter AD900-1/D1	

250608 Mounting Frame 19"/6HU RAHMEN/FBF

Mounting frame 19"/6HU for accommodation of a Fire Brigade Control Unit FBF900-1 or FBF900-2 in a Fire Detection Control Panel Housing GEH19/14, GEH19/18, GEH19/40-1 or GEH19/STAND.

Specifications

Colour grey white, RAL 9002
Weight 1.5kg

Cross-references	Page	Art.Nr.	Name	Type
	45	212027	Cabinet 19"/18HU GEH19/18	
	267	250740	Fire Brigade Control Unit FBF900-1/D1	
	268	250741	Fire Brigade Control Unit FBF900-2/D1	
	46	212028	Housing 19"/36HU GEH19/STAND	

268007 Fire Brigade Map Box FWP-1

Metal wall-mount box for safekeeping alarm plans for the fire brigade operation at the location of the fire detection control panel.

Specifications

Dimensions W × H × D 350 × 400 × 110 (mm)
Colour flame red, RAL 3000
Weight 4.2kg

250709 Fire Brigade Map Box FPKCLR900-1

Document case for storage of approx. 100 fire brigade alarm plans in DIN A4 and A3 format, fire brigade maps and building-specific technical data. Powder coated ST 37 steel sheet case with security lock.

Specifications

Lock DOM-CL1
Dimensions W × H × D 500 × 360 × 95 (mm)
Colour flame red, RAL 3000

Weight 6.1kg

Cross-references	Page	Art.Nr.	Name	Type
	271	250717	Fire Brigade Orientation Panel FOTR900-1/D1	
	271	250902	Fire Brigade Orientation Panel FOTR900-2/D1	

250713 Fire Brigade Map Box FPKPHZR900-1

Document case for storage of approx. 100 fire brigade alarm plans in DIN A4 and A3 format, fire brigade maps and building-specific technical data. Powder coated steel sheet case with lock for half cylinders.



Specifications

Lock bolt lock for half cylinder
 Dimensions W × H × D 500 × 360 × 95 (mm)
 Colour flame red, RAL 3000
 Weight 6.1kg

Cross-references	Page	Art.Nr.	Name	Type
	271	250717	Fire Brigade Orientation Panel FOTR900-1/D1	
	271	250902	Fire Brigade Orientation Panel FOTR900-2/D1	

29 Fire Controls

217001 Smoke Switch RS24

In normal condition, the Smoke Switch RS24 provides the holding current for the fire controls that is needed to keep the fire doors, etc. open. In the event of a fire, the Smoke Switch RS24 recognises the alarm of a fire detector connected to the detector line and disconnects the supply of the connected fire controls – the fire doors close and thereby prevent the spreading of fire and smoke.



Features

- ◆ Conventional detector line with surveilled quiescent current for automatic detectors or manual call points
- ◆ High output power for fire controls
- ◆ Dry contact for site-specific functions
- ◆ Activation and reset button integrated in the device

Specifications

Mains voltage	230VAC +10/-15%, 50Hz
Connection power	40VA
Output voltage	24VDC
Output power	max. 18W (in continuous operation)
Working temperature	-5°C to +50°C
Contact rating	30VDC/2A/60W
Protection class	IP43
Dimensions W × H × D	99 × 164 × 67 (mm)
Colour	light grey, RAL 7035
Weight	1.06kg

Cross-references	Page	Art.Nr.	Name	Type
	107	246140	Detector Base/Conv./1000/SS ECO1000BR1000	
	105	246008	Detector Base/Conv./400/100/300/SS B401RM	
	149	246021	Detector Base/Conv./60/65/Apo GSA-45681-200	
	60	241009	Meldereinsatz/100/OM 2151E	
	86	241046	Optical-Thermal Detector/Conv./1000/SS ECO1002	
	82	241041	Optical-Thermal Detector/Conv./300/SS 2351TEM	
	85	241045	Optical Smoke Detector/Conv./1000/SS ECO1003	
	81	241040	Optical Smoke Detector/Conv./300/SS 2351E	
	126	241026	Optical Smoke Detector/Conv./65/Apo GO-55000-317	

260002 Control Device for Magnetic Lock Clamp 2498

Electronic control device for triggering a magnetic lock clamp. Activation can result from pushing a button located behind a glass plate, by means of an integrated key switch or via a fire detection control panel.



Features

- ◆ Activation in conjunction with a fire detection control panel possible
- ◆ Two optical and one acoustic indicator signalise the operating status (door "CLOSED" or "OPEN")
- ◆ Integrated electronic buzzer activates when emergency button is pushed
- ◆ Surface case suitable for wall mounting in dry rooms

Specifications

Operating voltage	24VDC
Buzzer sound level	100dB
Dimensions W × H × D	120 × 170 × 60 (mm)

Weight 730g

Cross-references	Page	Art.Nr.	Name	Type
	279	261019	Magnetic Lock Clamp/2750N	1388
	279	261017	Magnetic Lock Clamp/4900N	1390
	279	261018	Magnetic Lock Clamp/LED/4900N	1392

261003 Magnetic Clamp/500N 1330

The magnetic clamp is used for fixing fire doors or smoke compartments. It consists of a base plate for wall mounting and flexible wires for connection as well as an armature plate with a tilt joint as counterpart.



Specifications

Operating voltage	24VDC
Power consumption	1.5W
Adhesive force	approx. 500N (50kg)
Working temperature	-5°C to +50°C
Dimensions L × W × H	magnet: 65 × 65 × 35 (mm) armature plate: 60 × 60 × 48 (mm)
Weight	420g

261004 Magnetic Clamp/Reset/500N 1350

The magnetic clamp is used for fixing fire doors or smoke compartments. It consists of a surface wall-mount housing with lateral interrupt button and an armature plate with a tilt joint as counterpart.



Specifications

Operating voltage	24VDC
Power consumption	1.5W
Adhesive force	approx. 500N (50kg)
Working temperature	-5°C to +50°C
Dimensions L × W × H	magnet: 95 × 95 × 40 (mm) armature plate 60 × 60 × 48 (mm)
Weight	700g

261005 Magnetic Clamp/Reset/150mm/500N 1370/15

The magnetic clamp is used for fixing fire doors or smoke compartments and is suitable for surface mounting on floors, ceilings or walls. It consists of a 150mm bracket (adjustable to 180mm) with interrupt button and an armature plate with a tilt joint as counterpart.



Specifications

Operating voltage	24VDC
Power consumption	1.5W
Adhesive force	approx. 500N (50kg)
Working temperature	-5°C to +50°C
Dimensions L × W × H	magnet 125 × 125 × 150 - 180 (mm) armature plate: 60 × 60 × 48 (mm)
Weight	1.2kg

261006 Magnetic Clamp/Reset/300mm/500N 1370/30

The magnetic clamp is used for fixing fire doors or smoke compartments and is suitable for surface mounting on floors, ceilings or walls. It consists of a 300mm bracket (adjustable to 330mm) with interrupt button and an armature plate with a tilt joint as counterpart.

Specifications

Operating voltage	24VDC
Power consumption	1.5W
Adhesive force	approx. 500N (50kg)
Working temperature	-5°C to +50°C
Dimensions L × W × H	magnet 125 × 125 × 300 - 330 (mm) armature plate 60 × 60 × 48 (mm)
Weight	1.55kg

261008 Magnetic Clamp/1000N 1340

The magnetic clamp is used for fixing fire doors or smoke compartments. It consists of a base plate for wall mounting and flexible wires for connection as well as an armature plate with a tilt joint as counterpart.

Specifications

Operating voltage	24VDC
Power consumption	2.4W
Adhesive force	approx. 1000N (100kg)
Working temperature	-5°C to +50°C
Dimensions L × W × H	magnet 65 × 65 × 38 (mm) armature plate 60 × 60 × 48 (mm)
Weight	650g

261009 Magnetic Clamp/Reset/1000N 1360

The magnetic clamp is used for fixing fire doors or smoke compartments. It consists of a surface wall-mount housing with lateral interrupt button and an armature plate with a tilt joint as counterpart.



Specifications

Operating voltage	24VDC
Power consumption	2.4W
Adhesive force	approx. 1000N (100kg)
Working temperature	-5°C to +50°C
Dimensions L × W × H	magnet 95 × 95 × 40 (mm) armature plate 60 × 60 × 48 (mm)
Weight	930g

261010 Magnetic Clamp/Reset/150mm/1000N 1380/15

The magnetic clamp is used for fixing fire doors or smoke compartments and is suitable for surface mounting on floors, ceilings or walls. It consists of a 150mm bracket (adjustable to 180mm) with interrupt button and an armature plate with a tilt joint as counterpart.



Specifications

Operating voltage	24VDC
Power consumption	2.4W
Adhesive force	approx. 1000N (100kg)
Working temperature	-5°C to +50°C
Dimensions L × W × H	magnet 125 × 125 × 150 - 180 (mm) armature plate 60 × 60 × 48 (mm)
Weight	1.45kg

261011 Magnetic Clamp/Reset/300mm/1000N 1380/30

The magnetic clamp is used for fixing fire doors or smoke compartments and is suitable for surface mounting on floors, ceilings or walls. It consists of a 300mm bracket (adjustable to 330mm) with interrupt button and an armature plate with a tilt joint as counterpart.



Specifications

Operating voltage	24VDC
Power consumption	2.4W
Adhesive force	approx. 1000N (100kg)
Working temperature	-5°C to +50°C
Dimensions L × W × H	magnet 125 × 125 × 300 - 330 (mm) armature plate 60 × 60 × 48 (mm)

Weight 1.8kg

261017 Magnetic Lock Clamp/4900N 1390

Magnetic lock clamp with extra high magnetic force for locking doors (emergency exits, access control systems, etc.) during normal operation. The lock is released through an optional Control Device For Magnetic Lock Clamp 2498. Suitable for surface mounting in dry rooms. Complete with counter plate and mounting accessories.



Specifications

Operating voltage	24VDC
Current consumption at 24V	250mA
Adhesive force	approx. 4900N (490kg)
Working temperature	-5°C to +50°C
Dimensions L × W × D	270 × 67 × 41 (mm)
Weight	4.2kg

Cross-references	Page	Art.Nr.	Name	Type
	275	260002	Control Device for Magnetic Lock Clamp 2498	

261018 Magnetic Lock Clamp/LED/4900N 1392

Magnetic lock clamp with extra high magnetic force and function indication for locking doors (emergency exits, access control systems, etc.) during normal operation. The lock is released through an optional Control Device For Magnetic Lock Clamps 2498. Suitable for surface mounting in dry rooms. Complete with counter plate and mounting accessories.

Specifications

Operating voltage	24VDC
Current consumption at 24V	250mA
Adhesive force	approx. 4900N (490kg)
Working temperature	-5°C to +50°C
Dimensions L × W × D	270 × 67 × 41 (mm)
Weight	4.2kg

Cross-references	Page	Art.Nr.	Name	Type
	275	260002	Control Device for Magnetic Lock Clamp 2498	

261019 Magnetic Lock Clamp/2750N 1388

Magnetic lock clamp with extra high magnetic force for interlocking of doors (emergency exits, access control systems, etc.) during normal operation. The lock is released through an optional Control Device For Magnetic Lock Clamp 2498. Suitable for surface mounting in dry rooms. Complete with counter plate and mounting accessories.



Specifications

Operating voltage	24VDC
Current consumption at 24V	250mA
Adhesive force	approx. 2750N (275kg)
Working temperature	-5°C to +50°C

Dimensions L × W × D 268 × 48 × 25 (mm)
Weight 2kg

Cross-references	Page	Art.Nr.	Name	Type
	275	260002	Control Device for Magnetic Lock Clamp	2498

30

Telephone Dialling Devices

320007

Automatic Telephone Dialling Device TWG805-1A

The Automatic Telephone Dialling Device TWG805-1A serves for transmission of alarm messages and fault messages and for the reception of switching commands in public telephone networks. Alarm messages and fault messages are transmitted as voice messages to telephone connections, mobile phones or voice mail boxes. Switching commands are transmitted by the caller via DTMF tones to the actuation output of the telephone dialling device.



If a dialogue module is used, the TWG805-1 can be remotely operated from every telephone connection with an authorisation code. In case of an alarm activation, the reply of the called participant is recorded. Thereby, the receipt of alarm information is documented.

In the basic version, the Telephone Dialling Device TWG805-1A is equipped with 4 control inputs and one actuation output. The control lines react to changes in resistance and can be programmed for connection of normally open and normally closed contacts. The actuation output is designed as dry relay contact and can be configured as pulse output with freely settable pulse duration or as continuous output.

Ten different voice announcement messages can be recorded, the total length of all messages is 64 seconds. Up to four messages can be assigned to each control line or to special system conditions of the device.

For operation and programming, the integrated keyboard and the two-line LC-display, or the acoustic dialogue menu via the telephone line, can be used. Hierarchical codes for user and manufacturer avoid unauthorised access.

The Automatic Telephone Dialling Device TWG805-1A is accommodated in a sabotage-protected steel sheet housing, which also provides space for the optional stand-by battery and a telephone socket.

Features

- ◆ Four control inputs that are activated by a change in resistance
- ◆ One actuation output for remote control commands, programmable as pulse output or continuous output
- ◆ Up to eight users can be called on activation of a control input
- ◆ Dial possible also when control inputs are reset to inactive state
- ◆ DTMF or pulse dialling mode
- ◆ Trunk seizure via code for connection in remote systems
- ◆ Digital voice memory for the recording of announcement and communication texts
- ◆ Ten different voice announcement messages with a the total length of 64 seconds can be recorded
- ◆ Recording of announcement messages directly on the device via a telephone receiver
- ◆ All functions freely programmable without the need for an additional programming device
- ◆ Programmable time delay for transmission of fault messages
- ◆ Real time clock with calendar, pre-programmable shifting date of summer-time period
- ◆ Event memory for the last 200 events
- ◆ Outputs for transmission of system conditions
- ◆ Sabotage-protected steel sheet case
- ◆ Power supply from a danger detection system (12V and 24V) or optional plug-in adapter
- ◆ Integrated charger for an optional stand-by battery
- ◆ Optional extension to 8 control line inputs and 5 actuation outputs
- ◆ Optional extension for continuous monitoring of phone line
- ◆ Optional extension for remote control by an acoustic dialogue menu, remote inquiry of the system conditions and remote maintenance by the installer

Specifications

Inputs 4 control lines with free assignment, expandable to 8

Activation criteria	30% change in resistance
Outputs	1 actuation output, dry change-over contact (contact load max. 60V/1A) 1 dry fault detection output (max. load 30V/50mA) 1 dry confirmation output (max. load 30V/50mA)
Dialling mode	pulse dialling mode, DTMF mode
Supply voltage	10 - 31VDC
Current consumption at 12V	60mA (quiescent) 140mA (alarm condition and actuation output activated)
Current consumption at 24V	35mA (quiescent) 70mA (alarm condition and actuation output activated)
Stand-by battery	optional 6V/1.2Ah
Charging current	max. 120mA
Current consumption from stand-by battery in case of supply voltage failure	65mA (quiescent) 150mA (alarm condition and actuation output activated)
Ambient temperature	-5°C to +50°C (VdS - environmental class 2)
Colour	grey white, RAL 9002
Dimensions W × H × D	215 × 325 × 85 (mm)
Weight	2.3kg
Approvals	VdS G199801 VSÖ 990629/11 Austrian Telecommunication Authority 105340ZB9705

Cross-references	Page	Art.Nr.	Name	Type
	285	329014	Dialogue Module DPM805-1	
	284	329013	Line Monitoring Module TUM805-1	
	285	329016	Plug-in Power Supply STN805-1	
	283	329012	Relay Module RL404-1	
	287	310010	Stand-by Battery 6V/1,2Ah	
	285	329015	Telephone Speaker Set TEL805-1	

320008**Automatic Telephone Dialling Device TWG805-1D**

The Automatic Telephone Dialling Device TWG805-1D serves for transmission of alarm messages and fault messages and for the reception of switching commands in public telephone networks. Alarm messages and fault messages are transmitted as voice messages to telephone connections, mobile phones or voice mail boxes. Switching commands are transmitted by the caller via DTMF tones to the actuation output of the telephone dialling device.

If a dialogue module is used, the TWG805-1 can be remotely operated from every telephone connection with an authorisation code. In case of an alarm activation, the reply of the called participant is recorded. Thereby, the receipt of alarm information is documented.

In the basic version, the Telephone Dialling Device TWG805-1D is equipped with 4 control inputs and one actuation output. The control lines react to changes in resistance and can be programmed for connection of normally open and closed contacts. The actuation output is designed as dry relay contact and can be configured as pulse output with freely settable pulse duration or as continuous output.

Ten different voice announcement messages can be recorded, the total length of all messages is 64 seconds. Up to four messages can be assigned to each control line or to special system conditions of the device.

For operation and programming, the integrated keyboard and the two-line LC-display, or the acoustic dialogue menu via the telephone line, can be used. Hierarchical codes for user and manufacturer avoid unauthorised access.

The Automatic Telephone Dialling Device TWG805-1D is accommodated in a sabotage-protected steel sheet housing, which also provides space for the optional stand-by battery and a telephone socket.

Features

- ◆ Four control inputs that are activated by a change in resistance

- ◆ One actuation output for remote control commands, programmable as pulse output or continuous output
- ◆ Up to eight users can be called on activation of a control input
- ◆ Dial possible also when control inputs are reset to inactive state
- ◆ DTMF or pulse dialling mode
- ◆ Trunk seizure via code for connection in remote systems
- ◆ Digital voice memory for the recording of announcement and communication texts
- ◆ Ten different voice announcement messages with a the total length of 64 seconds can be recorded
- ◆ Recording of announcement messages directly on the device via a telephone receiver
- ◆ All functions freely programmable without the need for an additional programming device
- ◆ Programmable time delay for transmission of fault messages
- ◆ Real time clock with calendar, pre-programmable shifting date of summer-time period
- ◆ Event memory for the last 200 events
- ◆ Outputs for transmission of system conditions
- ◆ Sabotage-protected steel sheet case
- ◆ Power supply from a danger detection system (12V and 24V) or optional plug-in adapter
- ◆ Integrated charger for an optional stand-by battery
- ◆ Optional extension to 8 control line inputs and 5 actuation outputs
- ◆ Optional extension for continuous monitoring of phone line
- ◆ Optional extension for remote control by an acoustic dialogue menu, remote inquiry of the system conditions and remote maintenance by the installer

Specifications

Inputs	4 control lines with free assignment, expandable to 8
Activation criteria	30% change in resistance
Outputs	1 actuation output, dry change-over contact (contact load max. 60V/1A) 1 dry fault detection output (max. load 30V/50mA) 1 dry confirmation output (max. load 30V/50mA)
Dialling mode	pulse dialling mode, DTMF mode
Supply voltage	10 - 31VDC
Current consumption at 12V	60mA (quiescent) 140mA (alarm condition and actuation output activated)
Current consumption at 24V	35mA (quiescent) 70mA (alarm condition and actuation output activated)
Stand-by battery	optional 6V/1.2Ah
Charging current	max. 120mA
Current consumption from stand-by battery in case of supply voltage failure	65mA (quiescent) 150mA (alarm condition and actuation output activated)
Ambient temperature	-5°C to +50°C (VdS - environmental class 2)
Colour	grey white, RAL 9002
Dimensions W × H × D	215 × 325 × 85 (mm)
Weight	2.3kg
Approvals	ICT D800451K, VdS G199801

Cross-references	Page	Art.Nr.	Name	Type
	285	329014	Dialogue Module DPM805-1	
	284	329013	Line Monitoring Module TUM805-1	
	285	329016	Plug-in Power Supply STN805-1	
	283	329012	Relay Module RL404-1	
	287	310010	Stand-by Battery 6V/1,2Ah	
	285	329015	Telephone Speaker Set TEL805-1	

329012 Relay Module RL404-1

Snap-on board for extension of Automatic Telephone Dialling Devices Series TWG805 by 4 control inputs and 4 actuation outputs. The control lines react to changes in resistance and can be programmed for connection of normally open and normally closed contacts. Each



actuation output is designed as dry relay contact and can be configured as pulse output or continuous output.

Specifications

Inputs	4 control lines
Activation criteria	30% change in resistance
Outputs	4 actuation outputs with dry change-over contacts (contact load max. 60V/1A)
Supply voltage	internal voltage supply of the TWG805-1
Current consumption at 12V	5mA (quiescent) 310mA (all actuation outputs activated)
Current consumption at 24V	3mA (quiescent) 150mA (all actuation outputs activated)
Current consumption from stand-by battery in case of supply voltage failure	7mA (quiescent) 350mA (all actuation outputs activated)
Ambient temperature	-5°C to +50°C
Dimensions L × W × H	70 × 60 × 15 (mm)
Weight	50g

Cross-references	Page	Art.Nr.	Name	Type
	281	320007	Automatic Telephone Dialling Device TWG805-1A	
	282	320008	Automatic Telephone Dialling Device TWG805-1D	

329013

Line Monitoring Module TUM805-1

Snap-on board for Automatic Telephone Dialling Devices Series TWG805 to continuously monitor the loop voltage of a telephone line. The delay time for the fault evaluation can be programmed at the TWG805-1.



Specifications

Supply voltage	internal voltage supply of the TWG805-1
Response threshold of the voltage monitoring	20VDC
Current consumption at 12V	64mA
Current consumption at 24V	32mA
Current consumption from stand-by battery in case of supply voltage failure	8mA
Current consumption from telephone line	10µA
Ambient temperature	-5°C to +50°C
Dimensions L × W × H	35 × 30 × 15 (mm)
Weight	6g
Approval	together with TWG805-1A - Austrian Telecommunication Authority 105340ZB9705

Cross-references	Page	Art.Nr.	Name	Type
	281	320007	Automatic Telephone Dialling Device TWG805-1A	
	282	320008	Automatic Telephone Dialling Device TWG805-1D	

329014 Dialogue Module DPM805-1

Module for extension of Automatic Telephone Dialling Devices Series TWG805-1 with the functions for remote control, remote enquiry and recording of the alarm receipt. It consists of a voice message memory with pre-programmed dialogue texts and an integrated circuit for control of additional functions. The remote control and authorisation code enquiry is established via the telephone network with DTMF tones.

Features

- ◆ Remote control of actuation outputs with the dialogue menu
- ◆ Condition enquiry of actuation outputs
- ◆ Condition enquiry of control lines
- ◆ Remote enquiry of the event memory of the telephone dialling device
- ◆ Enquiry of alarm receipt
- ◆ Activation of a time window for remote maintenance by manufacturer
- ◆ Remote disablement of control lines
- ◆ Remote enquiry of voice announcement messages (test function)
- ◆ Alarm test (call-back simulation)

Specifications

Supply voltage	internal voltage supply of the TWG805-1
Current consumption at 12V	8mA
Current consumption at 24V	4mA
Current consumption from stand-by battery in case of supply voltage failure	10mA
Ambient temperature	-5°C to +50°C
Weight	6g

Cross-references	Page	Art.Nr.	Name	Type
	281	320007	Automatic Telephone Dialling Device TWG805-1A	
	282	320008	Automatic Telephone Dialling Device TWG805-1D	

329015 Telephone Speaker Set TEL805-1

For recording of voice announcement messages into the digital voice message memory and for checking the recorded texts in Automatic Telephone Dialling Devices Series TWG805.

Specifications

Connection	4-pin Western connector
Cable length	approx. 1.4m
Ambient temperature	0°C to +50°C
Dimensions L × W × H	200 × 50 × 40 (mm)
Weight	200g

329016 Plug-in Power Supply STN805-1

Power supply unit for supply of 12V devices with low power demand, e.g., an Automatic Telephone Dialling Device Series TWG805.



Specifications

Mains voltage	230VAC +10/-15%, 50Hz
Connection power	5VA
Output voltage	12VDC
Output current	400mA
Ambient temperature	-5°C to +50°C
Dimensions W × H × D	50 × 75 × 80 (mm)
Weight	300g

31 Batteries and Power Supply Devices

310010 Stand-by Battery 6V/1,2Ah

Maintenance-free, sealed accumulator with fixed electrolyte and low self-discharge, suitable in particular for emergency power supply of electronic security systems in stand-by operation. Due to technological progress, the stated specifications may differ.

Specifications

Nominal voltage	6V
Capacity	1.2Ah min. at 20 hours discharge
Dimensions L × W × H	97 × 25 × 55 (mm) max.
Weight	max. 310g

Cross-references	Page	Art.Nr.	Name	Type
	281	320007	Automatic Telephone Dialling Device TWG805-1A	
	282	320008	Automatic Telephone Dialling Device TWG805-1D	

310006 Stand-by Battery 12V/2,3Ah

Maintenance-free, sealed accumulator with fixed electrolyte and low self-discharge, suitable in particular for emergency power supply of electronic security systems in stand-by operation. For 24V applications, 2 batteries of identical type must be connected in series. Due to technological progress, the stated specifications may differ.

Specifications

Nominal voltage	12V
Capacity	2.3Ah min. at 20 hours discharge
Dimensions L × W × H	178 × 34 × 65 (mm) max.
Weight	max. 1.1kg
Approval	approved by VdS

310001 Stand-by Battery 12V/7Ah

Maintenance-free, sealed accumulator with fixed electrolyte and low self-discharge, suitable in particular for emergency power supply of electronic security systems in stand-by operation. For 24V applications, 2 batteries of identical type must be connected in series. Due to technological progress, the stated specifications may differ.

Specifications

Nominal voltage	12V
Capacity	7Ah min. at 20 hours discharging time
Dimensions L × W × H	152 × 65 × 100 (mm) max.
Weight	max. 2.4kg
Approval	approved by VdS

Cross-references	Page	Art.Nr.	Name	Type
	1	210205	Fire Detection Control Panel BC06-1/INT1	
	3	210209	Fire Detection Control Panel BC06-2/INT1	

310002 Stand-by Battery 12V/18Ah

Maintenance-free, sealed accumulator with fixed electrolyte and low self-discharge, suitable in particular for emergency power supply of electronic security systems in stand-by operation.

For 24V applications, 2 batteries of identical type must be connected in series. Due to technological progress, the stated specifications may differ.

Specifications

Nominal voltage	12V
Capacity	18Ah min. at 20 hours discharge
Dimensions L × W × H	181 × 76 × 167 (mm) max.
Weight	max. 6.3kg
Approval	approved by VdS

Cross-references	Page	Art.Nr.	Name	Type
	40	214003	Auxiliary Case for BC216 GEH216-4	
	29	214105	BCnet Sectional Control Panel/No Op. BC216-3CE	
	25	214005	BCnet Sectional Control Panel/No Operation BC216-3	
	23	214056	BCnet Sectional Control Panel/OP. BC216-2/INT1	
	7	210122	Fire and Evacuation Panel BC016-2/INT1	
	6	210102	Fire Detection Control Panel BC016-1/INT1	
	12	214008	Fire Detection Control Panel BC216-1/INT1	
	27	214108	Fire Detection Control Panel BC216-1CE/INT1	
	16	214308	Fire Detection Control Panel BC216-1S/INT1	
	72	252010	LED Display Tableau LAT288-1	

310012 Stand-by Battery 12V/20Ah

Maintenance-free, sealed accumulator with fixed electrolyte and low self-discharge, suitable in particular for emergency power supply of electronic security systems in stand-by operation. For 24V applications, 2 batteries of identical type must be connected in series. Due to technological progress, it was possible to achieve a still higher energy density. The dimensions of this type series correspond to those of an 18Ah accumulator.

Specifications

Nominal voltage	12V
Capacity	20Ah at 20 hours discharge
Dimensions L × W × H	181 × 76 × 167 (mm) max.
Weight	6.4kg max.
Approval	approved by VdS

Cross-references	Page	Art.Nr.	Name	Type
	40	214003	Auxiliary Case for BC216 GEH216-4	
	29	214105	BCnet Sectional Control Panel/No Op. BC216-3CE	
	25	214005	BCnet Sectional Control Panel/No Operation BC216-3	
	23	214056	BCnet Sectional Control Panel/OP. BC216-2/INT1	
	7	210122	Fire and Evacuation Panel BC016-2/INT1	
	6	210102	Fire Detection Control Panel BC016-1/INT1	
	12	214008	Fire Detection Control Panel BC216-1/INT1	
	27	214108	Fire Detection Control Panel BC216-1CE/INT1	
	16	214308	Fire Detection Control Panel BC216-1S/INT1	
	72	252010	LED Display Tableau LAT288-1	

310003 Stand-by Battery 12V/26Ah

Maintenance-free, sealed accumulator with fixed electrolyte and low self-discharge, suitable in particular for emergency power supply of electronic security systems in stand-by operation. For 24V applications, 2 batteries of identical type must be connected in series. Due to technological progress, the stated specifications may differ.

Specifications

Nominal voltage	12V
Capacity	26Ah min. at 20 hours discharge
Dimensions L × W × H	167 × 175 × 125 (mm) max.
Weight	max. 9.6 kg
Approval	approved by VdS

310004 Stand-by Battery 12V/45Ah

Maintenance-free, sealed accumulator with fixed electrolyte and low self discharge, suitable in particular for emergency power supply of electronic security systems in stand-by operation. For 24V applications, 2 batteries of identical type must be connected in series. Due to technological progress, the stated specifications may differ.

Specifications

Nominal voltage	12V
Capacity	45Ah min. at 20 hours discharge
Dimensions L × W × H	197 × 165 × 170 (mm) max.
Weight	max. 14.8kg
Approval	approved by VdS

Cross-references	Page	Art.Nr.	Name	Type
	291	317020	Power Supply Module	NTM2402-1

310005 Stand-by Battery 12V/65Ah

Maintenance-free, sealed accumulator with fixed electrolyte and low self-discharge, suitable in particular for emergency power supply of electronic security systems in stand-by operation. For 24V applications, 2 batteries of identical type must be connected in series. Due to technological progress, the stated specifications may differ.

Specifications

Nominal voltage	12V
Capacity	65Ah min. at 20 hours discharge
Dimensions L × W × H	350 × 166 × 175 (mm) max.
Weight	max. 23.7kg
Approval	approved by VdS

Cross-references	Page	Art.Nr.	Name	Type
	30	2149997	BCnet Sectional Control Panel/OP.	BC216-2EPS
	31	214204	Fire Detection Control Panel Module/PS	BCM216-3EPS
	292	317021	Power Supply Module	NTM2408-1

317001 Power Supply 24V/3A MT3400L

The power supply allows for the supply of devices, which require a fail-safe supply with a nominal voltage of 24VDC. During a mains power failure, the optional stand-by batteries provide uninterrupted current for the consumer loads. The compact power supply consists of a fully electronic, stabilised mains charging unit for stand-by operation and is installed in a robust sheet steel wall-mount housing. The housing provides room for 2 stand-by batteries with 12V/max. 22Ah. Depending on the stand-by battery that is used, the required values (maximum charging current, maximum express charging time, battery test interval and battery test length) can be set within a wide range. With a given charging period of 24 hours, stand-by batteries with a maximum capacity of 65Ah can be charged.

Features

- ◆ Linear controlled mains charging unit, current-limited and short-circuit proof
- ◆ Optimised charging process of the stand-by battery by means of fast charging and trickle charging
- ◆ Electronically reverse-polarity-protected
- ◆ 3 light emitting diodes for clear indication of all status conditions
- ◆ 3 relay outputs for transmitting the fault conditions (battery, DC output or mains supply)

Specifications

Operating voltage	230VAC +10/-15%, 50Hz
Connection power	150VA
Nominal voltage	typ. 24VDC
Nominal output current	max. 3A

Ambient temperature	-5°C to +50°C
Relative humidity	max. 90% (no condensation)
Dimensions W × H × D	300 × 400 × 100 (mm)
Colour	grey white, RAL 9002
Protection class	IP30
Weight	6.4kg

317100 Power Supply 24V/1Amp-Stabilized NG1-1S

Electronically controlled compact power supply unit for the supply of external devices with increased current consumption. The power supply unit provides constant output voltage and is, therefore, not suitable for loading stand-by batteries.

The componentry is mounted in a plastic housing for DIN rail mounting in 45mm standard grid.

Features

- ◆ Switch-mode power supply unit, current-limited and short-circuit proof
- ◆ Stabilised output voltage
- ◆ Light emitting diode for indicating operation and fault
- ◆ Integrated mains fuse

Specifications

Operating voltage	90 to 260VAC, 48 to 63Hz
Output voltage	24VDC +/-3%
Nominal output current	1A
Ambient temperature	-5°C to +40°C
Relative humidity	max. 90% (no condensation)
Dimensions L × W × D	87 (5 module units) × 93 × 66 (mm)
Colour	light grey, RAL 7035
Weight	185g

317101 Power Supply 24V/2Amp-Stabilized NG2-1S

Electronically controlled compact power supply unit for the supply of external devices with increased current consumption. The power supply unit provides constant output voltage and is, therefore, not suitable for loading stand-by batteries.

The componentry is mounted in a plastic housing for DIN rail mounting in 45mm standard grid.

Features

- ◆ Switch-mode power supply unit, current-limited and short-circuit proof
- ◆ Stabilised output voltage
- ◆ Light emitting diode for indicating operation and fault
- ◆ Integrated mains fuse

Specifications

Operating voltage	90 to 260VAC, 48 to 63Hz
Output voltage	24VDC +/-3%
Nominal output current	2A
Ambient temperature	-5°C to +40°C
Relative humidity	max. 90% (no condensation)
Dimensions L × W × D	140 (8 module units) × 93 × 66 (mm)
Colour	light grey, RAL 7035
Weight	355g

317102 Power Supply 24V/4Amp-Stabilized NG4-1S

Electronically controlled compact power supply unit for the supply of external devices with increased current consumption. The power supply unit provides constant output voltage and is, therefore, not suitable for loading stand-by batteries.

The componentry is mounted in a plastic housing for DIN rail mounting in 45mm standard grid.

Features

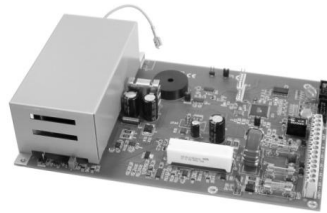
- ◆ Switch-mode power supply unit, current-limited and short-circuit proof
- ◆ Stabilised output voltage
- ◆ Light emitting diode for indicating operation and fault
- ◆ Integrated mains fuse

Specifications

Operating voltage	90 to 260VAC, 48 to 63Hz
Output voltage	24VDC +/-3%
Nominal output current	4A
Ambient temperature	-5°C to +40°C
Relative humidity	max. 90% (no condensation)
Dimensions L × W × D	140 (8 module units) × 93 × 66 (mm)
Colour	light grey, RAL 7035
Weight	400g

317020 Power Supply Module NTM2402-1

The Power Supply Module NTM2402-1 is an autonomous componentry for the supply of devices, which require a failure-safe power supply with a nominal voltage of 24VDC. The module complies with EN 54-4:2006.



In case of mains voltage failure, the module continues to provide current from optionally connected stand-by batteries. The mains voltage is transformed by the integrated switched-mode power supply to the current-limited and short circuit-protected output voltage, that is required for connected loads and optional stand-by batteries. The maximum load current varies depending on the battery capacity. For a theoretical charging time

of 24 hours, stand-by batteries with a maximum capacity of 45Ah can be charged.

Battery monitoring includes periodic measurements of the final charge voltage and of the internal resistance of the batteries, according to EN 54-4:2006. The optional earth leakage monitoring of the module can be activated by inserting a jumper.

The power supply module is prepared for installation in the Power Supply Housing Series NTG.

Features

- ◆ High efficiency through modern switched-mode power supply technology, current-limited and short circuit-protected
- ◆ Long lifespan of stand-by batteries through temperature-compensated final charge voltage
- ◆ Seven LED indicators for display of causes of fault and 'operation'
- ◆ Integrated mains fuse

Specifications

Mains voltage	185 to 255VAC, 47 to 53Hz
Output voltage	typ. 28VDC
Output peak current	2.2A
Connection of external devices	typ. 0.8A, system-specific
Ambient temperature	-5°C to +50°C
Relative humidity	max. 90% (no condensation)
Dimensions L × W × H	230 × 150 × 52 (mm)
Weight	approx. 0.5kg
Approval	VdS pending

Cross-references	Page	Art.Nr.	Name	Type
	292	317030	Power Supply Housing NTG24-1	
	293	317031	Power Supply Housing NTG24-1/CE	
	289	310004	Stand-by Battery 12V/45Ah	

317021 Power Supply Module NTM2408-1

The Power Supply Module NTM2408-1 is an autonomous componentry for the supply of devices, which require a failure-safe power supply with a nominal voltage of 24VDC. The module complies with EN 54-4:2006.



In case of mains voltage failure, the module continues to provide current from optionally connected stand-by batteries. The mains voltage is transformed by the integrated switched-mode power supply to the current-limited and short circuit-protected output voltage, that is required for connected loads and optional stand-by batteries. The maximum load

current varies depending on the battery capacity. For a theoretical charging time of 24 hours, stand-by batteries with a maximum capacity of 130Ah can be charged.

Battery monitoring includes periodic measurements of the final charge voltage and of the internal resistance of the batteries, according to EN 54-4:2006. The optional earth leakage monitoring of the module can be activated by inserting a jumper.

The power supply module is prepared for installation in the Power Supply Housing Series NTG.

Features

- ◆ High efficiency through modern switched-mode power supply technology, current-limited and short circuit-protected
- ◆ Long lifespan of stand-by batteries through temperature-compensated final charge voltage
- ◆ Seven LED indicators for display of causes of fault and 'operation'
- ◆ Integrated mains fuse

Specifications

Mains voltage	185 to 255VAC, 47 to 53Hz
Output voltage	typ. 28VDC
Output peak current	8A
Connection of external devices	typ. 3.5A, system-specific
Ambient temperature	-5°C to +50°C
Relative humidity	max. 90% (no condensation)
Dimensions L × W × D	290 × 220 × 70 (mm)
Weight	approx. 1.5kg
Approval	VdS pending

Cross-references	Page	Art.Nr.	Name	Type
	292	317030	Power Supply Housing NTG24-1	
	293	317031	Power Supply Housing NTG24-1/CE	
	289	310005	Stand-by Battery 12V/65Ah	

317030 Power Supply Housing NTG24-1

The Power Supply Housing NTG24-1 accommodates one Power Supply Module Series NTM. The housing in a stable powder-coated steel sheet design is prepared for wall mounting.



If a Power Supply Module NTM2402-1 is mounted, the housing provides space for the installation of stand-by batteries 2 × 12V/max. 45Ah and of one Relay Module RL58-1 or RL58-2. If a Power Supply Module NTM2408-1 is integrated, the housing accommodates stand-by batteries 2 × 12V/max. 22Ah and of one Relay Module RL58-1 or RL58-2. If stand-by batteries 2 × 12V/max. 22Ah are installed, a Multi Module MEA244-1/E can additionally be installed.

The operating and display board on the front-side of the housing includes LED indicators for display of operating conditions and fault conditions and allows for the reset of the internal

buzzer. For the labelling of the LED indicators and the button, insertable labelling strips in various languages are provided.

Cable entry can either be on the top side, bottom side or back side of the housing.

Specifications

Dimensions W × H × D	442 × 382 × 203 (mm)
Colour	light grey, RAL 7035
Weight without installations	approx. 5.7kg

Cross-references	Page	Art.Nr.	Name	Type
	291	317020	Power Supply Module NTM2402-1	
	292	317021	Power Supply Module NTM2408-1	

317031

Power Supply Housing NTG24-1/CE

The Power Supply Housing NTG24-1/CE accommodates one Power Supply Module Series NTM. The housing is made of powder-coated steel sheets and can, due to its intelligent design, either be accommodated in a pivoting frame in 19" design or mounted on a mounting plate of a 19" cabinet. In both cases, the optional stand-by batteries are accommodated in the interior of the 19" cabinet.



Besides the power supply module, it provides space for the installation of one Relay Module RL58-1 or RL58-2.

The operating and display board on the front-side of the housing includes LED indicators for the display of operating conditions and fault conditions and allows for the reset of the internal buzzer. For the labelling of the LED indicators and the button, insertable labelling strips in various languages are provided.

Specifications

Dimensions W × H × D	478 × 266 × 20 (mm) (without power supply module)
Colour	light grey, RAL 7035
Weight without installations	approx. 1.4kg

Cross-references	Page	Art.Nr.	Name	Type
	291	317020	Power Supply Module NTM2402-1	
	292	317021	Power Supply Module NTM2408-1	

317032

Power Supply Housing NTG24-2

The Power Supply Housing NTG24-2 accommodates one Power Supply Module Series NTM. The housing in a stable powder-coated steel sheet design is prepared for wall mounting. Besides the power supply module, it provides space for the installation of stand-by batteries 4 × 12V/max. 85Ah, one Relay Module RL58-1 or RL58-2 and one Multi Module MEA244-1/E.

The operating and display board on the front-side of the housing provides LED indicators for display of operating conditions and fault conditions and allows for the reset of the internal buzzer. For the labelling of the LED indicators and the button, insertable labelling strips in various languages are provided.

Cable entry can either be on the top side or bottom side of the housing.

One flange plate with apertures to break out and two Battery Brackets BK24-1 are provided with the power supply housing. The bottom side of the housing is recommended as cable entry point, otherwise stand-by batteries are standing on the flange plate and prevent a cable entry.

Specifications

Dimensions W × H × D	800 × 1000 × 300 (mm)
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Colour light grey, RAL 7035
 Weight without installations approx. 57kg

Cross-references	Page	Art.Nr.	Name	Type
	294	317033	Battery Bracket BK24-1	
	291	317020	Power Supply Module NTM2402-1	
	292	317021	Power Supply Module NTM2408-1	

317033 Battery Bracket BK24-1

The Battery Bracket BK24-1 is prepared for simple and secure installation of stand-by batteries in the Power Supply Housing NTG24-2 or in an 19" cabinet. The stable steel sheet design can accommodate a maximum of either one stand-by battery 12V/65Ah or 12V/85Ah, or two stand-by batteries 12V/45Ah.

Specifications

Dimensions W × H × D 370 × 195 × 209 (mm)
 Colour light grey, RAL 7035
 Weight approx. 1.8kg

Cross-references	Page	Art.Nr.	Name	Type
	293	317032	Power Supply Housing NTG24-2	

229010 Voltage Stabiliser 24VDC STAB24-1

By using the Voltage Stabiliser STAB24-1, the voltage fluctuations of the output voltages that are conditional upon the charging logic of the fire detection control panels are kept to a minimum, which guarantees optimum operation of the supplied modules.

Features

- ◆ High efficiency
- ◆ Easy installation
- ◆ Small dimensions

Specifications

Supply voltage (input) 19 to 36VDC
 Supply voltage (output) 24VDC ±2%
 Output power max. 10W
 Efficiency approx. 80%
 Output current min. 50mA / max. 410mA
 Ambient temperature -5°C to +50°C
 Relative humidity max. 95% (no condensation)
 Dimensions L × W × H 75 × 40 × 15 (mm)
 Weight 50g

Cross-references	Page	Art.Nr.	Name	Type
	56	223030	Long Distance Modem BCnet216 MOD-1	

32 Software

218008 Parameter Setup Software PARSOFT-2

The Parameter Setup Software PARSOFT-2 allows for the creation, download, modification and upload of the site-specific parameters of a Fire Detection Control Panel Series BC216 and Series BC016, an Extinguishing Control Panel Series LC216, as well as the Remote Tableau Drive Unit PTU288-1 in a clear and timesaving way. In addition, you can use PARSOFT-2 to load a firmware update into the connected device or read the event memory of the control panel and display it on a monitor.

The software is delivered in several languages on a CD-ROM and can be used on any IBM-compatible PC with operating system Windows 95/98/NT4.0/2000/XP, provided that the following minimum requirements are met:

- ◆ Pentium/100MHz processor, 32MB RAM
- ◆ At least 10MB free hard disk space
- ◆ CD-ROM drive
- ◆ Free serial interface with 9-pin connector or TCP/IP connection
- ◆ USB 2.0 interface (for PTU288-1; Windows 2000/XP is however required therefor)
- ◆ PC keyboard, mouse

One of the serial interfaces of the BCnet sectional control panel that has been parameterised as main operating unit of a Fire Detection Control Panel BCnet216 (or of the Fire Detection Control Panel BC216-1, BC216-1CE, BC216-1S, BC016, respectively) must be provided with a Serial Interface Module SIM216-1, so that the PC can be connected.

218041 Alarm Monitoring Software License ALVIS/F

Control center license for using an operation control system for alarm reporting systems. The software allows for a concise depiction of the ground plans as well as detailed views of the facility.

The alarm monitoring software is a modular system with a modern user interface and can be configured according to your individual needs. The system allows for a comfortable uniform operation and control of the alarm reporting system. Depending on the configuration of the user interface, overview screens and photos of the facility can be displayed at any time, thus providing an optimal and quick overview in any situation. Detail screens inform about all important events and report them chronologically as well as by type. Each event triggered by a detector can be located with the respective detector on the corresponding screen window by a simple mouse click. Depending on the authorisation level, operations regarding the fire detection system (disablement of detectors, operating units, actuations, etc.) can be carried out for every data point. Any status change in the system implicates also that the colour of the respective symbol changes. Additional functions such as display of users logged on, the event-dependent display of screen windows, event-driven time programs, catalogue of measures, etc. can be defined if required.

By using sample symbols, the parameters for similar functions can be set easily and quickly during a new installation as well as in the course of enhancements or modifications.

Specifications

Operating system	at least Windows 2000 Professional
Minimum requirements PC	Pentium, 512MB RAM, RS232 interface for the connection of the fire detection control panel, mouse, keyboard, USB interface for Dongle, 1GB HDD, graphics card for 2 monitor

Cross-references	Page	Art.Nr.	Name	Type
	296	218045	Alarm Monitoring Interface Licence ALVIS-LBC1000	
	296	218044	Alarm Monitoring Interface License BC216 ALVIS-BC216	
	52	214025	Serial Interface Module SIM216-1	

218044 Alarm Monitoring Interface License BC216 ALVIS-BC216

The alarm monitoring interface license allows for the operation of the DDE server, which controls the event-driven communication between the operation control system and the Fire Detection Control Panel Series BC216. The DDE server runs as independent task in parallel to the visualisation user interface of the alarm monitoring system.

218045 Alarm Monitoring Interface Licence ALVIS-LBC1000

The Alarm Monitoring Interface Licence ALVIS-LBC1000 enables the service of the DDE server, which controls the event-dependent communication between the alarm monitoring system and the Fire Detection Control Panel Series LBC1000. The DDE server operates as an independent task parallel to the user interface of the alarm monitoring system.

33 Tools

249059 Test Module/100/200/SS MOD400R

Measuring adapter to read out measured values from optical or ionisation smoke detectors Series 100 and 400. The test module transforms the measured value into a direct-current voltage signal, which is measured by a multimeter. Thereby, the sensitivity of a detector can be assessed during maintenance. A sufficient sensitivity is one of the most important criteria for avoiding false alarms.

Features

- ◆ Terminals for multimeter
- ◆ Easy readout of measured values without an alarm activation of the detector
- ◆ Battery lifespan approx. one year

Specifications

Operating voltage	9VDC (block battery)
Ambient temperature	0°C to +50°C
Dimensions L × W × H	114 × 79 × 31 (mm)
Connection	4mm sockets
Colour	black
Weight	238g

249036 Test Gas Can SOLOA3-001

Canned, non-polluting test gas for checking the function of automatic smoke detectors. Can be used with Smoke Detector Test Tools FPD05 and SOLO300.

Cross-references	Page	Art.Nr.	Name	Type
	297	249051	Smoke Detector Test Tool SOLO330	

249051 Smoke Detector Test Tool SOLO330

Smoke detector test tool for checking automatic smoke detectors by means of non-polluting test gas. The transparent head of the test tool provides intervisibility with the detector activation LED indicator and thus saves test gas. The construction of the test tool, thanks to its pivoting head, allows reaching even mounting places, which can be accessed only with difficulty. With the optional Telescopic Pole SOLO100, it is possible to check detectors, which are mounted in rooms of up to 7m height.



Cross-references	Page	Art.Nr.	Name	Type
	298	249054	Extension Pole SOLO101	
	298	249053	Telescopic Pole SOLO100	
	297	249036	Test Gas Can SOLOA3-001	

249052 Detector Removal Tool SOLO200

Universal detector removal tool for removing and reinstalling punctiform automatic fire detectors of various dimensions. The clamping mechanism is flexibly mounted on a pole of 0.65 m length and can, therefore, be used even for mounting places that are difficult to access. With the optional Telescopic Pole SOLO100, it is possible to reach detectors, which are mounted in rooms of up to 7m height.

Cross-references	Page	Art.Nr.	Name	Type
	298	249054	Extension Pole SOLO101	
	298	249053	Telescopic Pole SOLO100	

249053 Telescopic Pole SOLO100

Fibreglass telescopic pole used to adjust the Smoke Detector Test Tool SOLO330 or the Detector Removal Tool SOLO200 to the individual room height. The pole measures 1.2m in retracted condition. The total length in extracted condition is 4.5m; you can, therefore, reach detectors mounted to approx. 7m height.

Cross-references	Page	Art.Nr.	Name	Type
	298	249052	Detector Removal Tool SOLO200	
	113	246112	Satellite Unit for Remote Programming/Conv./300/SS S300SAT	
	297	249051	Smoke Detector Test Tool SOLO330	

249054 Extension Pole SOLO101

Fibreglass extension pole with a length of 1.2m for Smoke Detector Test Tool SOLO330 and Detector Removal Tool SOLO200 for application with room heights of up to approx. 4m. Together with the Telescopic Pole SOLO100, it is possible to reach detectors, which are mounted in rooms of up to 9m height.

Cross-references	Page	Art.Nr.	Name	Type
	298	249052	Detector Removal Tool SOLO200	
	113	246112	Satellite Unit for Remote Programming/Conv./300/SS S300SAT	
	297	249051	Smoke Detector Test Tool SOLO330	

249058 Test Set/Conv./S60/Apo TS-53832-020

Measuring device for electrical testing of automatic detectors Series 60 and 65 in conventional technology on-site during maintenance. Each test set is provided with a continuity tester, mains adapter and a portable case with shoulder straps.

Features

- ◆ Easy to handle
- ◆ Menu-controlled test program
- ◆ Automatic execution of a series of tests for selected detector types
- ◆ Two buttons for selection and operation
- ◆ LC-display
- ◆ Automatic switching on/off
- ◆ Beep option to initiate action

- ♦ Red LED indicator lights up if a detector subjected to a test changes into the alarm condition

Cross-references	Page	Art.Nr.	Name	Type
	126	241026	Optical Smoke Detector/Conv./65/Apo GO-55000-317	

249023**Smoke Sticks/10pcs. RE2**

Smoke sticks for test activation of optical smoke detectors.

34

Miscellaneous

229005 E.O.L. Resistor/100pcs. 5,6K/0,33W

100 resistors per packing unit, suitable as line terminator (end-of-line resistor) of a detector line in conventional technology of Fire Detection Control Panels Series BC216, BC016 and BC06.

229004 Resistor/100pcs. 1K/0,33W

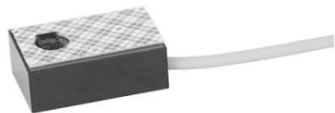
100 resistors per packing unit, to be used with contact detectors in conventional technology (e.g., manual call points). Resistors limit the line current of the detector line during alarm activation of the contact detector and serve to distinguish between a short circuit and an alarm.

229006 Diode/100pcs. 1N4004

100 diodes per packing unit, suitable as blocking diode in case of negative monitoring voltages (e.g., Control Zone Module SLM1-2, Siren Connection Module SZ58-2 and SZ58-3) or as recovery diode for inductive loads.

180001 Banknote Contact 12V-24V GK1224

Banknote contacts are semi-automatic hold-up detectors for the surveillance of banknote-packages in cash desks of financial institutions. The Banknote Contact GK1224 works noiselessly due to the use of the principle of light reflection without any physical contacts. At withdrawal of the surveilled banknote-package, the detector switches to the state of alarm.



Specifications

Supply voltage	10 - 30VDC
Current consumption (quiescent)	15mA (12V) 30mA (24V)
Switching distance	5 - 20mm
Alarm delay	2.5sec
Alarm contact	change-over contact 30VDC/0.5A
Connection cable	5 wire, 2m
Ambient temperature	0°C to +50°C
Colour	black
Dimensions W × L × H	30 × 45 × 16 (mm)
Weight	60g
Approval	VSÖ 961021/27

Notes

Product List

A	
227004	AC-Adapter for DPU414 PW4007-E1 65
249039	Address Cards/100pcs./Anal./XP95/Disc/Apo CK-38531-771 156
249020	Address Module/Conv. NG58-1 119
249028	Address Module/Conv./Apo NG60-1 155
244241	Air Filter for ASDS/complete LF-RAS 222
218045	Alarm Monitoring Interface Licence ALVIS-LBC1000 296
218044	Alarm Monitoring Interface License BC216 ALVIS-BC216 296
218041	Alarm Monitoring Software License ALVIS/F 295
2449999	Aspiration Hole Reduction Foils, Overview 223
244030	Aspiration Smoke Detection System A211E-LSR 210
244031	Aspiration Smoke Detection System A222E-LSR 211
244032	Aspiration Smoke Detection System Housing A310E .. 212
244033	Aspiration Smoke Detection System Housing A320E .. 213
244180	Aspiration Smoke Detection System Housing TP-1 213
244181	Aspiration Smoke Detection System Housing TP-2 214
244300	Aspiration Smoke Detection System Housing TT-1 217
244155	Aspiration Smoke Detection System T-SS 219
244170	Aspiration Smoke Detection System VLS-304 220
244201	Aspiration Tube DN-12x9 222
320007	Automatic Telephone Dialling Device TWG805-1A ... 281
320008	Automatic Telephone Dialling Device TWG805-1D ... 282
214003	Auxiliary Case for BC216 GEH216-4 40
2149999	Available Variants Series BC216 10
B	
214034	BCnet Sectional Control Panel/Extension BCE216-3LG 26
214105	BCnet Sectional Control Panel/No Op. BC216-3CE 29
214005	BCnet Sectional Control Panel/No Operation BC216-3 .. 25
214004	BCnet Sectional Control Panel/OP. BC216-2/A1 24
214060	BCnet Sectional Control Panel/OP. BC216-2/B1 24
214064	BCnet Sectional Control Panel/OP. BC216-2/CZ1 24
214612	BCnet Sectional Control Panel/OP. BC216-2/D1 24
214062	BCnet Sectional Control Panel/OP. BC216-2/H1 24
214079	BCnet Sectional Control Panel/OP. BC216-2/HR1 25
214087	BCnet Sectional Control Panel/OP. BC216-2/I1 25
214056	BCnet Sectional Control Panel/OP. BC216-2/INT1 23
214058	BCnet Sectional Control Panel/OP. BC216-2/NL1 25
214089	BCnet Sectional Control Panel/OP. BC216-2/PL1 25
214081	BCnet Sectional Control Panel/OP. BC216-2/RUS1 25
214066	BCnet Sectional Control Panel/OP. BC216-2/SK1 25
214085	BCnet Sectional Control Panel/OP. BC216-2/SLO1 25
2149999	BCnet Sectional Control Panel/OP. BC216-2/EPS 30
214176	BCnet-LBC Gateway/N.OP./6HU BCNET-LBC-GW .. 59
246030	Backplate/Apo SZPL-45681-233 153
244233	Banderole for Aspiration Hole Reduction Foil BA-AREDF 223
180001	Banknote Contact 12V-24V GK1224 300
246006	Base Adapter/SS MZP500-1 114
359040	Base Sounder & Strobe/IP24/White LPBW 254
359041	Base Sounder & Strobe/IP44/Red SDBR 255
359043	Base Sounder & Strobe/IP44/White SDBW 254
359042	Base Sounder & Strobe/IP65/Red WDBR 256
359044	Base Sounder & Strobe/IP65/White WDBW 255
249110	Base for Carrier Rail for M200/SS M200E-DIN 117
249109	Base for Mounting Plate for M200/SS M200E-PMB ... 116
359003	Base for Sounder & Strobe/IP44/Red/EMA ELPBR 251
359004	Base for Sounder & Strobe/IP55/Red/EMA ESRB 251
359008	Base for Sounder & Strobe/IP66/Red/EMA ESRBS 251
214028	Battery Bracket BK216-1 41
214128	Battery Bracket BK216-1CE 41
317033	Battery Bracket BK24-1 294
249215	Battery for 2100RFT-AS CR123 190
227005	Battery for DPU414 BT4005 66
249214	Battery for ECO1000RTU 6V-476A 114
249212	Battery for ECO1000RTU 6V-V11GA 114
244020	Beam Smoke Detector/Anal./SS 6500 198
244610	Beam Smoke Detector/Conv. FR2000 201
244022	Beam Smoke Detector/Conv./SS 6500R 196
244021	Beam Smoke Detector/Test/Anal./SS 6500S 199
244023	Beam Smoke Detector/Test/Conv./SS 6500RS 197
C	
243100	CO-Detector/Anal./Disc/Apo AC-58000-300 141
212027	Cabinet 19"/18HU GEH19/18 45
244240	Ceiling Duct/complete DDF-KOMPL. 222
244235	Check Valve/Spring-loaded/R25 RVFED-25 222
244131	Cleaner/Tangit/0.12l REIN-RAS-01 224
244127	Cleaner/Tangit/1l REIN/RAS 224
244236	Condensate Separator DN25 KABS-25 222
246029	Conduit Box/Apo SZA-45681-204 153
260002	Control Device for Magnetic Lock Clamp 2498 275
249106	Control Module 1xRel.Out-DIN/Anal./200/SS M201E-240-DIN 99
249105	Control Module 1xRel.Out/Anal./200/SS M201E-240 .. 98
249103	Control Module 1xSurv.Out/Anal./200/SS M201E 98
249116	Control Module 6xRel.Out/Anal./200/SS CR-6 99
249074	Control Module/Anal./XP95/Apo SMK-55000-849 146
249073	Control Module/Anal./XP95/Apo SMÜ-55000-852 145
214230	Control Panel Rack/8HU RACK216-1E 42
223009	Control Zone Module SLM1-2 50
214020	Conventional Detector Interface GIF8-1 35
249104	Conventional Zone Module/Anal./200/SS M210E-CZ .. 100
249045	Conventional Zone Module/Anal./500/SS M512ME ... 100
249075	Conventional Zone Module/Anal./XP95/Apo GWM-55000-845 146
259013	Cord 2 Wire for LED Connection/10pcs. LED-LEITUNG/10 75
214601	Cover IP54 for BC216 GEH-IP54-BC-1/D1 45
246017	Cover Plate for Base Bx01/Bx24 BC-Bx01 116
265019	Cylinder for Steel Sheet Mounting FASB LST102 266
D	
214129	Decoration Foil for BC216-3CE FF216-3CE 44
246012	Detector Base Filtrex/Anal./500/SS B524FTXE 111
246071	Detector Base with Diode/FC600 FC600/BRD 79
246002	Detector Base/Anal./500/200/SS B501 109
246015	Detector Base/Anal./500/200/SS B501DG 109
246034	Detector Base/Anal./Apo 45681-250 153
246025	Detector Base/Anal./Apo ASA-45681-210 151
246140	Detector Base/Conv./1000/SS ECO1000BR1000 107
246008	Detector Base/Conv./400/100/300/SS B401RM 105
246035	Detector Base/Conv./60/65/Apo 45681-251 149
246021	Detector Base/Conv./60/65/Apo GSA-45681-200 149
246042	Detector Base/Conv./ORBIS/Apo MB-00001 150
246040	Detector Base/Conv./RF 215-27D 187
246070	Detector Base/FC600 FC600/BR 79
246018	Detector Heater Base/Anal./500/SS B524HTR 111
249027	Detector Heater/Anal./500/200/SS MH500-1 119
246033	Detector Heater/Anal./Apo MH95-1 155
246032	Detector Heater/Conv./60/65/Apo MH60-1 154
249011	Detector Label BME/BEZ 226
249040	Detector Label/Large BME/GR 227
249240	Detector Label/Large/Sheet/8pcs. BME/GR-BOG 225

249211	Detector Label/Sheet/8pcs. BME/BEZ-BOG	225
249042	Detector Label/Small BME/KL	227
249242	Detector Label/Small/Sheet/20pcs. BME/KL-BOG	226
244183	Detector Module DM-TP-05-L	216
244182	Detector Module DM-TP-25-L	215
244186	Detector Module DM-TP-80L	215
244304	Detector Module DM-TT-05-L	218
244303	Detector Module DM-TT-25-L	218
244302	Detector Module DM-TT-80-L	217
249044	Detector Mounting Bracket MMW1-1	120
246016	Detector Relay Base/Anal./500/200/SS B524RTE	110
246037	Detector Relay Base/Anal./XP95/DISC/Apo ASR-45681-242	152
246141	Detector Relay Base/Conv./1000/SS ECO1000BREL24L	107
246102	Detector Relay Base/Conv./300/SS B312NL	106
246101	Detector Relay Base/Conv./300/SS B312RL	106
246100	Detector Relay Base/Conv./300/SS B324RL	105
246041	Detector Relay Base/Conv./ORBIS/Apo RB-10004	150
246142	Detector Relay Base/Conv./SS ECO1000BREL12L	108
246143	Detector Relay Base/Conv./SS ECO1000BREL12NL	108
246072	Detector Relay Base/FC600 FC600/BREL	80
249052	Detector Removal Tool SOLO200	298
222013	Detector Reset Module MQZ1000-1	208
210110	Detector Zone Extension MGE8-1	8
329014	Dialogue Module DPM805-1	285
229006	Diode/100pcs. 1N4004	300
214200	Display and Operating Front Panel ABP216-1E/A1	34
214615	Display and Operating Front Panel ABP216-1E/D1	34
214208	Display and Operating Front Panel ABP216-1E/INT1	33
214209	Display and Operating Front Panel ABP216-1E/NL1	34
244008	Duct Detector Housing/Anal./500/200/SS DH500	123
246031	Duct Detector Housing/Anal./Apo LG-53546-016	154
244005	Duct Detector Pipe/0.3-0.6M/SS ST-1.5	123
244010	Duct Detector Pipe/0.6-1.2M/SS ST-3	124
244011	Duct Detector Pipe/1.2-2.4M/SS ST-5	124
244012	Duct Detector Pipe/2.4-3.7M/SS ST-10	124
244009	Duct Detector/400/OM DH400P	122
212030	Dummy Cover 19"/2HU AD8C-2H	43
212029	Dummy Cover 19"/3HU AD8C-3H	43
212033	Dummy Cover 19"/6HU AD8C-6H	43

E

229005	E.O.L. Resistor/100pcs. 5,6K/0,33W	300
218023	ESPA 4.4.4 Interface License ESPA-SS	58
223025	Ethernet Module ENM2-1	53
249054	Extension Pole SOLO101	298
210216	Extinguishing Board BC06 EXB1-1	49
2189991	Extinguishing Control Function Series BC06, Description	48
2189990	Extinguishing Control Panel Series LC216, Description	47
218024	Extinguishing Control/8-Area License LC216-8LB	47
222011	Extinguishing System Interface LSS1000-1	49

F

250008	Fire Brigade Control Unit FBF58-2	267
250740	Fire Brigade Control Unit FBF900-1/D1	267
250741	Fire Brigade Control Unit FBF900-2/D1	268
250707	Fire Brigade Display Panel FAT900-1/D1	269
250900	Fire Brigade Display Panel FAT900-2/D1	270
214023	Fire Brigade Interface Additional Board FWZ2-1	37
210111	Fire Brigade Interface FWI016-1	9
214022	Fire Brigade Interface FWI2-1	36
265740	Fire Brigade Key Box FSK700-2/D1	257
265742	Fire Brigade Key Box FSK700-2S2/D1	258
268010	Fire Brigade Key Deposit/Flush Mount. FASB-UP	266
268009	Fire Brigade Key Deposit/Surface Mount. FASB-AP	265
265900	Fire Brigade Keysafe Adapter AD900-1/D1	260
250709	Fire Brigade Map Box FPKCLR900-1	273
250713	Fire Brigade Map Box FPKPHZR900-1	274
268007	Fire Brigade Map Box FWP-1	273

250717	Fire Brigade Orientation Panel FOTR900-1/D1	271
250902	Fire Brigade Orientation Panel FOTR900-2/D1	271
210100	Fire Detection Control Panel BC016-1/D1	7
210102	Fire Detection Control Panel BC016-1/INT1	6
210200	Fire Detection Control Panel BC06-1/D1	2
210205	Fire Detection Control Panel BC06-1/INT1	1
210204	Fire Detection Control Panel BC06-1A/D1	2
210208	Fire Detection Control Panel BC06-2/D1	3
210209	Fire Detection Control Panel BC06-2/INT1	3
214000	Fire Detection Control Panel BC216-1/A1	14
214006	Fire Detection Control Panel BC216-1/B1	14
214015	Fire Detection Control Panel BC216-1/CZ1	14
214610	Fire Detection Control Panel BC216-1/D1	14
214007	Fire Detection Control Panel BC216-1/H1	15
214049	Fire Detection Control Panel BC216-1/HR1	15
214086	Fire Detection Control Panel BC216-1/I1	15
214008	Fire Detection Control Panel BC216-1/INT1	12
214009	Fire Detection Control Panel BC216-1/NL1	15
214088	Fire Detection Control Panel BC216-1/PL1	15
214080	Fire Detection Control Panel BC216-1/RUS1	15
214017	Fire Detection Control Panel BC216-1/SK1	15
214084	Fire Detection Control Panel BC216-1/SLO1	15
214100	Fire Detection Control Panel BC216-1CE/A1	29
214164	Fire Detection Control Panel BC216-1CE/CZ1	29
214611	Fire Detection Control Panel BC216-1CE/D1	29
214109	Fire Detection Control Panel BC216-1CE/H1	29
214108	Fire Detection Control Panel BC216-1CE/INT1	27
214158	Fire Detection Control Panel BC216-1CE/NL1	29
214300	Fire Detection Control Panel BC216-1S/A1	18
214306	Fire Detection Control Panel BC216-1S/B1	18
214315	Fire Detection Control Panel BC216-1S/CZ1	18
214304	Fire Detection Control Panel BC216-1S/D1	18
214307	Fire Detection Control Panel BC216-1S/H1	18
214349	Fire Detection Control Panel BC216-1S/HR1	19
214308	Fire Detection Control Panel BC216-1S/INT1	16
214309	Fire Detection Control Panel BC216-1S/NL1	18
214388	Fire Detection Control Panel BC216-1S/PL1	19
214317	Fire Detection Control Panel BC216-1S/SK1	19
214384	Fire Detection Control Panel BC216-1S/SLO1	19
2199998	Fire Detection Control Panel BCnet216, Description	20
214205	Fire Detection Control Panel Module BCM216-3E	32
214234	Fire Detection Control Panel Module/LG BCM216-3ELG	32
214204	Fire Detection Control Panel Module/PS BCM216-3EPS	31
210120	Fire and Evacuation Panel BC016-2/D1	8
210122	Fire and Evacuation Panel BC016-2/INT1	7
243004	Flame Detector IR/Conv. IR-10	195
243002	Flame Detector UV/Conv. NFD-68-P+SOCKEL	194
243005	Flame Detector UV/Conv. UV-03	195
229008	Flat Cable 1700mm/10-Pole FBK17-1	64
265751	Flush Mounting Frame for FSK700-2 EZ700-2/D1	259
265818	Flush Mounting Frame with Drilling Protection for FSK700-2 EZBS700-2	259
244184	Front Foil FW-TP-1A	216
244185	Front Foil FW-TP-2	216
244305	Front Foil FW-TT-1	218
210212	Front Foil for Evacuation Circuit FFEV06-1	5

G

244619	Gas Detector 230V GM-MEIBU-230V	208
244620	Gas Detector Methane GM-METHAN	207
244621	Gas Detector Propane GM-PROPAN	207
223060	Gateway/IEC870-5-101/-104/BC216 IEC870-BC216-GW	56
249213	Glass for MCP Series/10pcs. G21140	173
244128	Glue/Tangit/0.12kg KLEB-RAS-01	223
244129	Glue/Tangit/0.25kg KLEB-RAS-02	224
244130	Glue/Tangit/0.5kg KLEB/RAS-05	224
244126	Glue/Tangit/1kg KLEB/RAS	224

H		M			
212028	Housing 19"/36HU GEH19/STAND	46	249096	MCP Coding Module MCM1-1	166
359023	Housing IP67 for Strobe/FB/XP95 29600-318	253	261008	Magnetic Clamp/1000N 1340	277
I		M			
246027	IS Detector Base/Anal./Apo ASEX-45681-215	179	261003	Magnetic Clamp/500N 1330	276
246090	IS Detector Base/Conv. YBN-R/4IS	176	261009	Magnetic Clamp/Reset/1000N 1360	277
246023	IS Detector Base/Conv./60/Apo GSEX-45681-207	176	261010	Magnetic Clamp/Reset/150mm/1000N 1380/15	278
240025	IS Ionisation Smoke Detector/Anal./XP95/Apo AIEX-55000-540	177	261005	Magnetic Clamp/Reset/150mm/500N 1370/15	276
240015	IS Ionisation Smoke Detector/Conv./100/SS 1151EIS	174	261011	Magnetic Clamp/Reset/300mm/1000N 1380/30	278
240023	IS Ionisation Smoke Detector/Conv./60/Apo GIEX-55000-212	175	261006	Magnetic Clamp/Reset/300mm/500N 1370/30	277
245680	IS Manual Call Point/Red/Conv. DC21	182	261004	Magnetic Clamp/Reset/500N 1350	276
241025	IS Optical Smoke Detector/Anal./200/SS 2251EIS	181	261019	Magnetic Lock Clamp/2750N 1388	279
241024	IS Optical Smoke Detector/Anal./XP95/Apo AOEX-55000-640	178	261017	Magnetic Lock Clamp/4900N 1390	279
241090	IS Optical Smoke Detector/Conv. SLR-E-IS	175	261018	Magnetic Lock Clamp/LED/4900N 1392	279
242036	IS Thermal Detector/Anal./XP95/Apo AWEX-55000-440	178	245014	Manual Call Point/Anal./XP95/Apo 55000-905	172
242015	IS Thermal ROR Detector/Conv./400/SS 5451EIS	174	245395	Manual Call Point/Blue/Anal./Apo HM/5/32/02/02	164
249041	Indicating Label/FDCP BME/BMZ	227	245429	Manual Call Point/Blue/Anal./Apo HM/5/32/18/02	165
265752	Inner Door for FSK700-2/A ITA-2	261	245372	Manual Call Point/Blue/Anal./SS HM/5/22/02/02	161
265753	Inner Door for FSK700-2/DBUK ITB-2	261	245415	Manual Call Point/Blue/Anal./SS HM/5/22/18/02	161
265757	Inner Door for FSK700-2/DBUM ITF-2	262	245352	Manual Call Point/Blue/Conv. HM/5/11/02/02	158
244638	Interconnector/LWM ZV22-11800-103	204	245417	Manual Call Point/Blue/Conv. HM/5/11/18/02	159
214231	Interface Adapter Module IAM216-1E	52	245021	Manual Call Point/Blue/RF HM/152-27D	186
240013	Ionisation Smoke Detector/Anal./200/SS 1251E	90	245023	Manual Call Point/Blue/RF M400DKMB-AS	190
240026	Ionisation Smoke Detector/Anal./Disc/Apo AI-58000-500	138	245402	Manual Call Point/EN 54/Red/Anal./Apo HFM/3/32/02	164
240024	Ionisation Smoke Detector/Anal./XP95/Apo AI-55000-520	136	245302	Manual Call Point/EN 54/Red/Conv. HFM/3/11/02	157
240027	Ionisation Smoke Detector/Conv./65/Apo GI-55000-217	126	245389	Manual Call Point/Grey/Anal./SS HM/7/22/03/02	163
246013	Isolator Detector Base/Anal./500/200/SS B524IEFT-1	110	245042	Manual Call Point/Red/200/Flexi MCP5A-RP07FF	171
246036	Isolator Detector Base/Anal./Apo AISA-45681-321	151	245040	Manual Call Point/Red/200/Glass MCP5A-RP07FG	170
249003	Isolator Module/Anal./500/200/SS ISM1-2	103	245043	Manual Call Point/Red/200/ISM/Flexi MCP5A-RP08FF	172
249029	Isolator Module/Anal./Apo ISM1-3	147	245041	Manual Call Point/Red/200/ISM/Glass MCP5A-RP08FG	170
249070	Isolator Module/Board/Apo 43781-552	148	245362	Manual Call Point/Red/Anal./SS HFM/3/22/02	160
K		M			
268012	Key for Fire Brigade Key Deposit 882AML102	266	245356	Manual Call Point/Red/Conv. HM/3/11/01/02	157
219006	Key for Manual Call Point SCH-HFM/HM	169	245020	Manual Call Point/Red/RF HFM/153-27D	185
227009	Kit 19"/3HU for Printer DPU414 DPU2-1E	44	245022	Manual Call Point/Red/RF M400DKMR-AS	189
L		M			
218021	LBC Sub-Unit License LBC-UZ	60	245396	Manual Call Point/Yellow/Anal./Apo HM/1/32/05/02	166
259011	LED Assembled Green/10pcs. LED-GN/10	74	245392	Manual Call Point/Yellow/Anal./SS HM/1/22/05/02	162
259010	LED Assembled Red/10pcs. LED-RT/10	75	245355	Manual Call Point/Yellow/Conv. HM/1/11/05/02	159
259012	LED Assembled Yellow/10pcs. LED-GE/10	75	249078	Module 1xSurv.In 1xRel.Out-230/Apo 55000-875	145
252013	LED Connection Module LAM48-1	74	249076	Module 1xSurv.In 1xRel.Out/Apo 55000-847	143
214024	LED Display Field LAB48-1	37	249102	Module 2xSurv.In 1xRel.Out/Anal./200/SS M221E	97
214030	LED Display Field LAB48-2	38	249077	Module 3xSurv.In 3xRel.Out/Apo 55000-588	144
214032	LED Display Field LAB48-3	38	212034	Module Carrier 19"/3HU MPL17/3	42
214036	LED Display Field LAB48-4	39	249115	Monitor Module 10xSurv.In/Anal./200/SS IM-10	97
252010	LED Display Tableau LAT288-1	72	249100	Monitor Module 1xSurv.In/Anal./200/SS M210E	96
252011	LED Display Tableau LAT288-ICE	72	249101	Monitor Module 2xSurv.In/Anal./200/SS M220E	96
359021	Lid for Detector Base Sounder/Red 45681-293	253	249060	Monitor Module-Interrupt/Anal./XP95/Apo ÜMI-55000-832	142
359020	Lid for Detector Base Sounder/White 45681-292	252	249046	Monitor Module/Anal./500/SS M503ME	95
359005	Lid for Sounder/DBS/Red DBSLIDR	252	249061	Monitor Module/Anal./XP95/Apo ÜMM-55000-833	142
359006	Lid for Sounder/DBS/White DBSLIDW	252	249072	Monitor Module/Anal./XP95/Apo ÜMS-55000-841	143
249090	Limit Switch/Anal./500/SS EDS500-1	103	249091	Monitor Module/Box/Anal./500/SS ÜMB500-1	103
329013	Line Monitoring Module TÜM805-1	284	244629	Mounting Base TC358	205
244637	Linear Heat Detection Unit Alarmline/Conv. LWM-1	202	214029	Mounting Bracket BW216-1	42
310021	Lithium Battery 3,6V/2,2Ah	191	244630	Mounting Clip 3040/LSK	205
310020	Lithium Battery 9V/1,2Ah	191	250606	Mounting Frame 19"/6HU RAHMEN	272
223030	Long Distance Modem BCnet216 MOD-1	56	250608	Mounting Frame 19"/6HU RAHMEN/FBF	273
214021	Loop Interface LIF64-1	35	212031	Mounting Kit 19"/3HU EW8C-E	44
		M			
		249049		Mounting Plate for Sounder/200/5pcs. DBSPD/5	256
		359022		Mounting Plate for Sounder/WB/XP95 38531-810	253
		249092		Multi Module/Mounting Rail MEA244-1/TR	101
		249095		Multi Module/Panel-Mounting MEA244-1/E	102
		244025		Multi-Mount Kit/6500 BEAMMMK	200
		223032		Multimode Fibre Gateway BCnet216 LWL-MM-2	57
		N			
		214027		Network Cable NWK2-1	51
		214033		Network Interface Module NIF5-1M	51
		214031		Network Redundant Alarm Converter NNU5-1	39

O

241603	Optical Battery Smoke Detector FL10022H	209
241019	Optical Filtrex Smoke Detector/Anal./500/SS FTX-P1	94
241050	Optical Laser Detector/Anal./200/SS 7251	91
241010	Optical Smoke Detector/Anal./200/SS ND2251EM	90
241027	Optical Smoke Detector/Anal./Disc/Apo AO-58000-600	139
241023	Optical Smoke Detector/Anal./XP95/Apo AO-55000-620	136
241038	Optical Smoke Detector/Conv./100/SS 2151E-LC	122
241045	Optical Smoke Detector/Conv./1000/SS ECO1003	85
241040	Optical Smoke Detector/Conv./300/SS 2351E	81
241026	Optical Smoke Detector/Conv./65/Apo GO-55000-317	126
241070	Optical Smoke Detector/Conv./FC600 FC600/O	76
241060	Optical Smoke Detector/Conv./ORBIS/Apo OP-12001	129
241029	Optical Smoke Detector/RF 55000-680	185
241020	Optical-Thermal Detector/Anal./200/SS 2251TEM	92
241022	Optical-Thermal Detector/Anal./Disc/Apo AMS-58000-700	141
241030	Optical-Thermal Detector/Anal./XP95/Apo AMS-55000-885	138
241046	Optical-Thermal Detector/Conv./1000/SS ECO1002	86
241041	Optical-Thermal Detector/Conv./300/SS 2351TEM	82
241061	Optical-Thermal Detector/Conv./ORBIS/Apo OH-13001	130
241036	Optical-Thermal Detector/RF/complete 2100RFT-AS	189
241051	Optical-Thermal-CO-IR Detector/Anal./200/SS 2251CTLE	93

P

218008	Parameter Setup Software PARSOFT-2	295
244125	Pipe Connector/25 RKL25	222
244118	Pipe Fitting/ADA MUFFE	221
244114	Pipe Fitting/BOW45 WINKEL-45	221
244112	Pipe Fitting/BOW90L BOGEN-90	221
244113	Pipe Fitting/BOW90S WINKEL-90	221
244119	Pipe Fitting/CAP KAPPE	222
244116	Pipe Fitting/T45 T-STÜCK-45	221
244115	Pipe Fitting/T90 T-STÜCK-90	221
244234	Plastic Clip for Aspiration Hole Reduction Foil/DF KC-AREDF-TK	223
329016	Plug-in Power Supply STN805-1	285
317100	Power Supply 24V/1Amp-Stabilized NG1-1S	290
317101	Power Supply 24V/2Amp-Stabilized NG2-1S	290
317001	Power Supply 24V/3A MT3400L	289
317102	Power Supply 24V/4Amp-Stabilized NG4-1S	290
317030	Power Supply Housing NTG24-1	292
317031	Power Supply Housing NTG24-1/CE	293
317032	Power Supply Housing NTG24-2	293
317020	Power Supply Module NTM2402-1	291
317021	Power Supply Module NTM2408-1	292
249014	Power Supply Unit for Detector Heater MH-TR1	119
237700	Power Supply for FSK Heating NT700-1	260
227007	Printer Cable for DPU414/1.8m 9POL.D-SUB-VERL.	66
227010	Printer Cable for LX300/3m 25POL.D-SUB-VERL.	67
219010	Programming Cable BC216/RS232 PK216-1	60
249631	Protection Kit IP54 for Manual Call Point HFM/HM-ZS-IP54	168
249640	Protective Cage BWS-1/D1	121
249634	Protective Cover V2A for Manual Call Point/Blue WG/BLAU-E-1	167
249633	Protective Cover V2A for Manual Call Point/Red WG/ROT-E-1	167
249636	Protective Cover V2A for Manual Call Point/Yellow WG/GELB-E-1	168
249650	Protective Cover for FSK700-2 WSD-FSK	259
228007	Protocol Interface/Anal./200/SS IST200	182
228005	Protocol Interface/Anal./XP95/Apo API-55000-855	180
227008	Protocol Printer/Dot-Matrix LX300	66
227003	Protocol Printer/Thermal DPU414-30B	65

R

249202	RF Interface/Anal./SS M500RFE-AS	187
249201	RF-Interface/4Rel FUIF511-27D	184
249203	RF-Interface/4Rel M400RFE-AS	188
246010	Recessed Mounting Kit/SS RMK400	115
250901	Redundant Transmission Adapter ADFAT900-2/D1	270
244024	Reflector/6500/75-100M BEAMLRK	200
222010	Relay Module 4-Fold/230VAC RL58-2	63
222004	Relay Module 8-Fold/60VDC RL58-1	62
329012	Relay Module RL404-1	283
223028	Remote Access Module GSM/GPRS FZG2-1	54
223027	Remote Access Module PSTN FZP2-1	53
250013	Remote Display Panel SG48-2	71
250030	Remote Display and Operating Panel ABF216-1/A1	68
250036	Remote Display and Operating Panel ABF216-1/B1	69
250033	Remote Display and Operating Panel ABF216-1/CZ1	69
250705	Remote Display and Operating Panel ABF216-1/D1	68
250038	Remote Display and Operating Panel ABF216-1/H1	69
250050	Remote Display and Operating Panel ABF216-1/HR1	70
250048	Remote Display and Operating Panel ABF216-1/I1	69
250039	Remote Display and Operating Panel ABF216-1/INT1	68
250035	Remote Display and Operating Panel ABF216-1/NL1	69
250049	Remote Display and Operating Panel ABF216-1/PL1	69
250046	Remote Display and Operating Panel ABF216-1/RUS1	69
250037	Remote Display and Operating Panel ABF216-1/SK1	69
250047	Remote Display and Operating Panel ABF216-1/SLO1	69
251001	Remote Indicator PA58-1	71
246111	Remote Program and Test Unit/Conv./300/SS S300RPTU	112
252012	Remote Tableau Drive Unit PTU288-1	73
250009	Remote Tableau SG58-2/A1	70
250016	Remote Tableau SG58-2/B1	70
250018	Remote Tableau SG58-2/CZ1	71
250015	Remote Tableau SG58-2/NL1	70
246150	Remote Test Unit/Conv./300/1000/SS ECO1000RTU	113
249047	Replacement Filter for Filtrex RF-FTX	124
2171612	Replacement Glass for Manual Call Point ET-SCH-HFM	169
2171621	Replacement Glass for Manual Call Point/Blue ET-SCH-HM-BL	169
2171620	Replacement Glass for Manual Call Point/Red ET-SCH-HM-RT	169
2171619	Replacement Glass for Manual Call Point/Yellow ET-SCH-HM-GE	169
229004	Resistor/100pcs. 1K/0,33W	300

S

223041	SMS/E-Mail Transmitter Module SMS2-1/D1	55
228006	Safety Barrier/Anal./200/SS Y72221	181
228004	Safety Barrier/Anal./XP95/Apo AES-29600-098	180
228003	Safety Barrier/Conv. ES58-2	177
246112	Satellite Unit for Remote Programming/Conv./300/SS S300SAT	113
244622	Sensing Cable/Black/LWM SK1800011	203
244628	Sensing Cable/Blue/LWM SK1800010	203
244624	Sensing Cable/Stainless Steel/LWM SK1800013	204
244632	Sensor Cable Monitoring System/Anal./XP95/Apo SKM-95	206
244631	Sensor Cable Monitoring System/Conv. SKM-03	205
244634	Sensor Cable/Black/SKM SK-SCHWARZ	207
244111	Sensor Pipe/PVC ROHR-PVC	221
244248	Sensor Tube/PVC/25 SCHL-PVC/25	221
210112	Serial Interface Module SIM016-3	9
210215	Serial Interface Module SIM06-1	4
214025	Serial Interface Module SIM216-1	52
223033	Singlemode Fibre Gateway BCnet216 LWL-SM-2	57
223024	Siren Connection Module SZ58-2	61
223026	Siren Connection Module SZ58-3	61
249051	Smoke Detector Test Tool SOLO330	297
249023	Smoke Sticks/10pcs. RE2	299
217001	Smoke Switch RS24	275

351650	Sounder-Strobe/24V/Red/Red MS5RR	231
355166	Sounder-Strobe/WB/200/White/Red/Multitone IBSST-DR-P01	247
355167	Sounder-Strobe/WB/200ISM/White/Red/Multitone IBSST-DR-P02	248
355134	Sounder-Strobe/WB/XP95ISM/White/Clear/Alert 45681-330	236
355136	Sounder-Strobe/WB/XP95ISM/White/Clear/DIN 45681-334	238
355135	Sounder-Strobe/WB/XP95ISM/White/Clear/Slow Whoop 45681-332	237
355162	Sounder-Strobe/WM/200/Red/Multitone/100dB WMSST-RR-P01	243
355163	Sounder-Strobe/WM/200ISM/Red/Multitone/100dB WMSST-RR-P02	244
355137	Sounder-Strobe/WM/XP95ISM/Red/Multitone/100dB 55000-293	239
355138	-Sounder-Strobe/WM65/XP95ISM/Red/Multitone/100 dB 55000-298	239
355102	Sounder/FB/12-24V/White/Multitone DBS1224B4W	229
355164	Sounder/WB/200/White/Multitone IBSOU-DD-P01	245
355165	Sounder/WB/200ISM/White/Multitone IBSOU-DD-P02	246
355133	Sounder/WB/XP95ISM/White/Alert 45681-277	233
355132	Sounder/WB/XP95ISM/White/DIN 45681-300	234
355131	Sounder/WB/XP95ISM/White/Slow Whoop 45681-290	233
355130	Sounder/WB/XP95RI/White/Alert 45681-276	236
355101	Sounder/WM/12-24V/Red/Multitone/103dB EMA1224B4R	229
355001	Sounder/WM/12-24V/Red/Multitone/106dB MS1R	228
355014	Sounder/WM/12-24V/White/Multitone/106dB MS1W	228
355160	Sounder/WM/200/Red/Multitone/100dB WMSOU-RR-P01	242
355161	Sounder/WM/200ISM/Red/Multitone/100dB WMSOU-RR-P02	242
355124	Sounder/WM/XP95/Red/Alert/100dB 55000-278	235
355125	Sounder/WM/XP95/Red/Slow Whoop/100dB 55000-276	235
227006	Spare Paper for DPU414/1Roll MM1 12-402-N	67
249024	Special Designation for Manual Call Point HM/BESCH	170
310002	Stand-by Battery 12V/18Ah	287
310006	Stand-by Battery 12V/2,3Ah	287
310012	Stand-by Battery 12V/20Ah	288
310003	Stand-by Battery 12V/26Ah	288
310004	Stand-by Battery 12V/45Ah	289
310005	Stand-by Battery 12V/65Ah	289
310001	Stand-by Battery 12V/7Ah	287
310010	Stand-by Battery 6V/1,2Ah	287
244633	Standard Sensor Cable/Red/SKM SK-ROT	206
265760	Steel Column V2A Standard HSF5K700-2/D1	262
265762	Steel Column V2A for F0345 + Strobe HSF5K700-2/D3	263
265761	Steel Column V2A for F0345 HSF5K700-2/D2	263
265765	Steel Column V2A for FSE-MP1 + Strobe HSF5K700-2/D6	262
265764	Steel Column V2A for FSE-MP1 HSF5K700-2/D5	264
265763	Steel Column V2A for Strobe HSF5K700-2/D4	264
356671	Strobe/24V/Orange BE/A/S/2.0/24VBMT	230
356672	Strobe/24V/Red BE/R/S/2.0/24VBMT	231
356022	Strobe/FB/XP95/White/Clear 55000-878	241
356023	Strobe/FB/XP95/White/Orange 55000-879	241
356020	Strobe/FB/XP95/White/Red 55000-877	240
356140	Strobe/WM/200/Red WMSTR-WR-P01	249
356141	Strobe/WM/200ISM/Red WMSTR-WR-P02	249
356001	Strobe/WM/24V/Red/Orange MS2RA	230
356650	Strobe/WM/24V/Red/Red MS2RR/24V	230
245019	Surface Mount Box/MCP5A SR	173
245012	Surface Mount Box/MCP5A SR3T	173
244026	Surface Mount Kit/6500 BEAMSMK	201
249108	Surface Mounting Box for M200/SS M200SMB	117
249004	Surface Mounting Box for M500/SS SMB500	118
249111	Surface Mounting Box for MS200/SS M200SMB-KO	117
249117	Surface Mounting Box for Multimodule/SS M200-SMB-MM	118
246009	Surface Mounting Kit/SS SMK400	115
T		
329015	Telephone Speaker Set TEL805-1	285
249053	Telescopic Pole SOLO100	298
222007	Terminal Converter Module 16-Fold SUB58-2	62
214130	Terminal Set/CE AKS216-1	40
214232	Terminal Set/E AKS216-2	41
244639	Termination Connector/LWM AV22-11800-102	204
249036	Test Gas Can SOLOA3-001	297
249059	Test Module/100/200/SS MOD400R	297
249058	Test Set/Conv./S60/Apo TS-53832-020	298
242002	Thermal Detector/Anal./200/SS 5251EM	94
242028	Thermal Detector/Anal./Disc/Apo AD-58000-400	140
242023	Thermal Detector/Anal./XP95/Apo AW-55000-420	137
242013	Thermal Max Detector IP67/Conv. SWM-1KL-100	193
242014	Thermal Max Detector IP67/Conv. SWM-1KL-140	194
242010	Thermal Max Detector IP67/Conv. SWM-1KL-57	192
242012	Thermal Max Detector IP67/Conv. SWM-1KL-80	192
242047	Thermal Max Detector/Conv./1000/SS ECO1004T	87
242046	Thermal Max Detector/Conv./1000/SS ECO1005T	88
242041	Thermal Max Detector/Conv./300/SS 4351E	84
242042	Thermal Max Detector/Conv./300/SS 5351TE	84
242027	Thermal Max Detector/Conv./65/Apo GM-55000-137	129
242071	Thermal Max Detector/Conv./FC600 FC600/TMAX/78	77
242031	Thermal Max Detector/Conv./ORBIS/Apo HT-11002	132
242033	Thermal Max Detector/Conv./ORBIS/Apo HT-11004	133
242035	Thermal Max Detector/Conv./ORBIS/Apo HT-11006	134
242045	Thermal ROR Detector/Conv./1000/SS ECO1005	87
242040	Thermal ROR Detector/Conv./300/SS 5351E	83
242024	Thermal ROR Detector/Conv./65/Apo GD-55000-122	127
242025	Thermal ROR Detector/Conv./65/Apo GD-55000-127	127
242026	Thermal ROR Detector/Conv./65/Apo GD-55000-132	128
242070	Thermal ROR Detector/Conv./FC600 FC600/TDIFF/57	77
242030	Thermal ROR Detector/Conv./ORBIS/Apo HT-11001	131
242032	Thermal ROR Detector/Conv./ORBIS/Apo HT-11003	132
242034	Thermal ROR Detector/Conv./ORBIS/Apo HT-11005	134
242029	Thermal ROR Detector/RF 55000-480	185
244237	Three-way Ball Valve 3MKH	222
212032	Transparent Door 19"/36HU SIT19/STAND	46
249635	Trapezoid Steel Bracket TBH800-1	121
U		
265660	Unblocking Element F0345	265
265661	Unblocking Element for Half Cylinder FSE-MP1	265
V		
229010	Voltage Stabiliser 24VDC STAB24-1	294
W		
249012	Wet Base Shroud/SS WB1	116
Z		
218022	ZLT Interface License ZLT-SS	58
246113	Zonal Display Unit/Conv./300/SS S300ZDU	112
210210	Zone Extension Board ZEB2-1	4

Last but not least...

We hope that this product survey enabled an easy search for and selection of articles suitable for you. If you are in need of further special documentation or if you are interested in special products not contained in the Product Guide please do not hesitate to contact us. We are pleased to be of personal assistance to you.

We can assure you that customer service is of highest value for LST. We will do whatever possible to complete your inquiries and your orders as fast as possible and to your convenience.

We would be pleased to count also you among our ever expanding number of customers.

LABOR STRAUSS Sicherungsanlagenbau Ges.m.b.H.

Head Office Vienna:

A-1231 Vienna, Wiegelestrasse 36

Tel.: +43 1 52114-0

Fax: +43 1 52114-27

E-mail: OFFICE@LST.AT

Homepage: WWW.LST.AT

General Terms Of Delivery

General Terms of Delivery

issued by the Austrian Electrical and Electronics Industry Association

1 Scope

- 1.1 These General Terms shall govern legal transactions between business enterprises, namely the delivery of commodities and, mutatis mutandis, the rendering of services. Software transactions are with precedence governed by the Software Conditions issued by the Austrian Electrical and Electronics Industry Association, assembly work by the Terms and Conditions for Assembly Work issued by the Austrian Power Current and Light Current Engineering Industry and/or (where applicable) the Terms and Conditions for the Assembly of Electrical Equipment used in Medicine issued by the Austrian Electrical and Electronics Industry.
- 1.2 Any departure from the terms and conditions mentioned in 1.1 above shall be valid only if expressly accepted in writing by Seller.

2 Submission of offers

- 2.1 Seller's offers shall be deemed offers without engagement.
- 2.2 Tender documents and project documentation must not be duplicated nor made available to third parties without the permission of Seller. They may be claimed back at any time and shall be returned to Seller immediately if the order is placed elsewhere.

3 Conclusion of contract

- 3.1 The contract shall be deemed concluded upon written confirmation by Seller of an order received or upon dispatch of a delivery.
- 3.2 Particulars appearing in catalog, folders etc. as well as any oral or written statements shall only be binding if Seller makes express reference to them in the confirmation of the order.
- 3.3 Subsequent amendments of or additions to the contract shall be subject to written confirmation.

4 Prices

- 4.1 Prices shall be quoted ex works or ex Seller's warehouse without VAT, packing and packaging, loading, disassembly, take-back and proper recycling and disposal of waste electrical and electronic equipment for commercial purposes as defined by the Ordinance Regulating the Handling of Waste Electrical Equipment. Buyer shall be liable for any and all charges, taxes or other duties levied in respect of delivery. If the terms of delivery include transport to a destination designated by Buyer, transport costs as well as the cost of any transport insurance desired by Buyer shall be borne by the latter. Delivery does not, however, include unloading and subsequent handling. Packaging materials will be taken back only by express agreement.
- 4.2 Seller reserves the right to modify prices if the order placed is not in accordance with the offer submitted.
- 4.3 Prices are based on costs obtaining at the time of the first quotation. In the event that the costs have increased by the time of delivery, Seller shall have the right to adjust prices accordingly.
- 4.4 In carrying out repair orders, Seller shall provide all services deemed expedient and shall charge Buyer for the same on the basis of the work input and/or expenditures required. The same holds for any services or additional services the expediency of which becomes apparent only as the repair order is executed. In such an event special notification of Buyer shall not be required.
- 4.5 Expenses for estimates of costs of repair and maintenance or for expert valuations shall be invoiced to Buyer.

5 Delivery

- 5.1 The period allowed for delivery shall commence at the latest of the following dates:
- the date of order confirmation by Seller;
 - the date of fulfillment by Buyer of all the conditions, technical, commercial and other, for which he is responsible;
 - the date of receipt by Seller of a deposit or security due before delivery of the goods in question.
- 5.2 Buyer shall obtain whatever licences or approvals may be required from authorities or third parties for the construction of plant and equipment. If the granting of such licences or approvals is delayed for any reason the delivery period shall be extended accordingly.
- 5.3 Seller may carry out, and charge Buyer for, partial or advance deliveries. If delivery on call is agreed upon, the commodity shall be deemed called off at the latest one year after the order was placed.

- 5.4 In case of unforeseeable circumstances or circumstances beyond the parties control, such as all cases of force majeure, which impede compliance with the agreed period of delivery, the latter shall be extended in any case for the duration of such circumstances; these include in particular armed conflicts, official interventions and prohibitions, delays in transport or customs clearance, damages in transit, energy shortage and raw materials scarcity, labor disputes, and default on performance by a major component supplier who is difficult to replace. The aforesaid circumstances shall be deemed to prevail irrespective of whether they affect Seller or his subcontractor(s).

- 5.5 If a contractual penalty for default of delivery was agreed upon by contracting parties when the contract was concluded, it shall be executed as follows, and any deviations concerning individual items shall not affect the remaining provisions:

Where delay in performance can be shown to have occurred solely through the fault of Seller, Buyer may claim for each completed week of delay an indemnity of at most one half of one per cent, a total of no more than 5 %, however, of the value of that part of the goods to be delivered which cannot be used on account of Seller's failure to deliver an essential part thereof, provided the Buyer has suffered a damage to the aforesaid extent.

Assertion of rights of damages exceeding this extent is precluded.

6 Passage of risk and Place of performance

- 6.1 Enjoyment and risk shall pass to Buyer at the time of departure of the goods ex works or ex warehouse regardless of the terms of quotation (such as carriage paid, C.I.F. etc.) agreed upon. This provision also includes the case of shipment being effected, organised and supervised by Seller and the case of delivery being made in connection with assembly work to be undertaken by Seller.
- 6.2 For services the place of performance shall be the place at which the service is rendered; the risk in respect of such services or any part thereof that may have been agreed upon shall pass to Buyer at the time the services have been rendered.

7 Payment

- 7.1 Unless otherwise agreed, one third of the purchase price shall fall due at the time of receipt by Buyer of the order confirmation of Seller, one third after half the delivery period has elapsed and the balance at the time of delivery. Irrespective thereof the turnover tax comprised in the amount of the invoice shall be paid within 30 days of the invoice date.
- 7.2 In the case of part settlements the individual part payments shall fall due upon receipt of the respective invoices. The same shall apply to amounts invoiced for additional deliveries or resulting from additional agreements beyond the scope of the original contract, irrespective of the terms of payment agreed upon for the principal delivery.
- 7.3 Payment shall be made without any discount free Seller's domicile in the agreed currency. Drafts and checks shall be accepted on account of payment only, with all interest, fees and charges in connection therewith (such as collection and discounting charges) to be borne by Buyer.
- 7.4 Buyer shall not be entitled to withhold or offset payment on the grounds of any warranty claims or other counterclaims.
- 7.5 Payment shall be deemed to have been effected on the date at which the amount in question is at Seller's disposal.
- 7.6 If Buyer fails to meet the terms of payment or any other obligation arising from this or other transactions, Seller may without prejudice to his other rights
- suspend performance of his own obligations until payments have been made or other obligations fulfilled, and exercise his right to extend the period of delivery to a reasonable extent,
 - call in debts arisen from this or any other transactions and charge default interest amounting to 1.25 % per month plus turnover tax for these amounts beginning with the due dates, unless Seller proves costs exceeding this.
- In any case Seller has the right to invoice all expenses arising prior to a lawsuit, especially reminder charges and lawyer's fees.
- 7.7 Discounts or bonuses are subject to complete payment in due time.
- 7.8 Seller retains title to all goods delivered by him until receipt of all amounts invoiced including interests and charges.
- Buyer herewith assigns his claim out of a resale of conditional commodities, even if they are processed, transformed or combined with other commodities, to Seller to secure the latter's purchase money claim, and he undertakes to make a corresponding entry in his books or on his invoices. Upon request Buyer has to notify the assigned claim and the debtor thereof to Seller, and to make all information and material required for his debt collection available and to notify the assignment to the third-party debtor. If the goods are attached or otherwise levied upon, Buyer shall draw attention to Seller's title and immediately inform Seller of the attachment or levy.

8 Warranty and acceptance of obligation to repair defects

- 8.1 Once the agreed terms of payment have been complied with, Seller shall, subject to the conditions hereunder, remedy any defect existing at the time of acceptance of the article in question whether due to faulty design, material or manufacture, that impairs the functioning of said article. From particulars appearing in catalogues, folders, promotional literature as well as written or oral statements which have not been included in the agreement no warranty obligations may be deduced.
- 8.2 Unless special warranty periods operate for individual items the warranty period shall be 12 months. These conditions shall also apply to any goods supplied, or services rendered in respect of goods supplied, that are firmly attached to buildings or the ground. The warranty period begins at the point of passage of risk acc. to paragraph 6.
- 8.3 The foregoing warranty obligations are conditional upon the Buyer giving immediate notice in writing of any defects that have occurred. Buyer shall prove immediately the presence of a defect, in particular he shall make available immediately to Seller all material and data in his possession. Upon receipt of such notice Seller shall, in the case of a defect covered by the warranty under 8.1 above, have the option to replace the defective goods or defective parts thereof or else to repair them on Buyer's premises or have them returned for repair, or to grant a fair and reasonable price reduction.
- 8.4 Any expenses incurred in connection with rectifying defects (e.g. expenses for assembly and disassembly, transport, waste disposal, travel and site-to-quarters time) shall be borne by Buyer. For warranty work on Buyer's premises Buyer shall make available free of charge any assistance, hoisting gear, scaffolding and sundry supplies and incidentals that may be required. Replaced parts shall become the property of Seller.
- 8.5 If an article is manufactured by Seller on the basis of design data, design drawings, models or other specifications supplied by Buyer, Seller's warranty shall be restricted to non-compliance with Buyer's specifications.
- 8.6 Seller's warranty obligation shall not extend to any defects due to assembly and installation work not undertaken by Seller, inadequate equipment, or due to non-compliance with installation requirements and operating conditions, overloading of parts in excess of the design values stipulated by Seller, negligent or faulty handling or the use of inappropriate materials, nor for defects attributable to material supplied by Buyer. Nor shall Seller be liable for damage due to acts of third parties, atmospheric discharges. Excess voltage and chemical influences. The warranty does not cover the replacement of parts subject to natural wear and tear. Seller accepts no warranty for the sale of used goods.
- 8.7 The warranty shall lapse immediately if, without written consent of Seller, Buyer himself or a third party not expressly authorised undertakes modifications or repairs on any items delivered.
- 8.8 Claims acc. to § 933b ABGB are struck by the statute of limitation with lapse of the period mentioned under point 8.2.
- 8.9 The provisions of sub-paragraphs 8.1 to 8.7 shall apply, mutatis mutandis, to all cases where the obligation to repair defects has to be accepted for other reasons laid down by law.

9 Withdrawal from contract

- 9.1 Buyer may withdraw from the contract only in the event of delays caused by gross negligence on the part of Seller and only after a reasonable period of grace has elapsed. Withdrawal from contract shall be notified in writing by registered mail.
- 9.2 Irrespective of his other rights Seller shall be entitled to withdraw from the contract a) if the execution of delivery or the inception or continuation of services to be rendered under the contract is made impossible for reasons within the responsibility of Buyer and if the delay is extended beyond a reasonable period of grace allowed; b) if doubts have arisen as to Buyer's creditworthiness and if same fails, on Seller's request, to make an advance payment or to provide adequate security prior to delivery, or c) if, for reasons mentioned in 5.4, the period allowed for delivery is extended by more than half of the period originally agreed or by at least 6 months.
- 9.3 For the reasons given above withdrawal from the contract shall also be possible in respect of any outstanding part of the delivery or service contracted for.
- 9.4 If bankruptcy proceedings are instituted against any contracting party or an application for bankruptcy proceedings against that party is not granted for insufficiency of assets, the other party may withdraw from the contract without allowing a period of grace.
- 9.5 Without prejudice to Seller's claim for damages including expenses arising prior to a lawsuit, upon withdrawal from contract any open accounts in respect of deliveries made or services rendered in whole or in part shall be settled according to contract. This provision also covers deliveries or services not yet accepted by Buyer as well as any preparatory acts performed by Seller. Seller shall, however, have the option alternatively to require the restitution of articles already delivered.
- 9.6 Withdrawal from contract shall have no consequences other than those stipulated above.

10 Disposal of waste electrical and electronic equipment

- 10.1 The Buyer of electrical/electronic equipment for commercial purposes, incorporated in Austria, is responsible for the financing of the collection and treatment of waste electrical and electronic equipment as defined by the Ordinance Regulating the Handling of Waste Electrical Equipment, if he is himself the user of the electrical/electronic equipment. If the Buyer is not the end user, he shall transfer the full financial commitment to his customer by agreement and furnish proof thereof to the Seller.
- 10.2 The Buyer incorporated in Austria shall ensure that the Seller is provided with all information necessary to meet the Seller's obligations as manufacturer/importer, particularly according to §§ 11 and 24 of the Ordinance Regulating the Handling of Waste Electrical Equipment and the Waste Management Act.
- 10.3 The Buyer incorporated in Austria is liable vis-à-vis the Seller for any damage and other financial disadvantages incurred by Seller due to Buyer's failure to meet or fully meet his financing commitment or any other obligations according to Article 10. The Buyer shall bear the burden of proof of performance of this obligation.

11 Seller's liability

- 10.1 Outside the scope of the Product Liability Act, Seller shall be liable only if the damage in question is proved to be due to intentional acts or acts of gross negligence, within the limits of statutory provisions. Seller shall not be liable for damage due to acts of ordinary negligence nor for consequential damages or damages for economic losses, loss of savings or interest or damage resulting from third-party claims against buyer.
- 10.2 Seller shall not be liable for damages in case of non-compliance with instructions for assembly, commissioning and operation (such as are contained in instructions for use) or non-compliance with licensing requirements.
- 10.3 Claims that exceed the contractual penalties that were agreed on are excluded from the respective title.

12 Assertion of Claims

All claims to which Buyer is entitled must be asserted in court within three years from passage of risk as specified under paragraph 6, unless shorter limits of time are prescribed by law, otherwise claims shall become forfeited.

13 Industrial property rights and copyrights

- 13.1 Buyer shall indemnify Seller and hold him harmless against any claims for any infringement of industrial property rights raised against him if Seller manufactures an article pursuant to any design data, design drawings, models or other specifications made available to him by Buyer.
- 13.2 Design documents such as plans and drawings and other technical specifications as well as samples, catalogues, prospectuses, pictures and the like shall remain the intellectual property of Seller and are subject to the relevant statutory provisions governing reproduction, imitation, competition etc. The provisions of 2.2 above shall also cover design documents.

14 General

Should individual provisions of the contract or of these provisions be invalid the validity of the other provisions shall not be affected. The invalid provision shall be replaced by a valid one, which comes as close to the target goal as possible.

15 Jurisdiction and applicable law

Any litigations arising under the contract including litigations over the existence or non-existence thereof shall fall within the exclusive jurisdiction of the competent court at Seller's domicile; the competent court of the Bezirksgericht Innere Stadt, Vienna, shall have exclusive jurisdiction if Seller is domiciled in Vienna. The contract is subject to Austrian law excluding the referral rules. Application of the UN Convention on Contracts for the International Sale of Goods is renounced.